the desired product (99.8 mg, 79%) as a colorless oil. Proton NMR indicated a 3:2 mixture of isomers due to partial epimerization at alanine chiral center. MS found: $(M+H)^{+} = 369$.

(18b) Following a procedure analogous to (1e), the ester from (18a) (94.5 mg, 0.256 mmol) was reacted with hydroxylamine to give the hydroxamic acid (90.1 mg, 95%) as a white solid. MS found: (M-H) = 368.

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Example 19

[1(R)]-N-hydroxy- α ,3-dimethyl-2-oxo-3-[4-[(4-pyridinyl)methoxy]phenyl]-1-pyrrolidineacetamide

(19a) Cesium carbonate (331 mg, 2.8 eq) was added to the phenol from (7a) (100.7 mg, 0.363 mmol), and 4-picolyl chloride hydrochloride (119 mg, 2 eq) in methyl sulfoxide (2 mL). After 20 h at rt, same portions of cesium carbonate and 4-picolyl chloride hydrochloride were added. After 30 min at 75 °C, saturated ammonium chloride (6 mL) and ethyl acetate (100 mL) were added. The mixture was washed with water (6 mL), brine (6 mL), dried (MgSO4) and concentrated. Silica gel chromatography (ethyl acetate) gave the desired product (106.7

chromatography (ethyl acetate) gave the desired product (106. mg, 80%) as a colorless oil. Proton NMR indicated a 4.5:1 mixture of isomers due to partial epimerization at alanine chiral center. MS found: $(M+H)^{+} = 369$.

25 (19b) Following a procedure analogous to (1e), the ester from (19a) (99.8 mg, 0.271 mmol) was reacted with hydroxylamine to give the hydroxamic acid (81.2 mg, 81%) as a white solid. MS found: $(M-H)^{-} = 368$.

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Example 20

(20a) Iodomethane (3.82 mL, 2.5 eq.) was added to a mixture of ibuprofen (4.97 g, 24.1 mmol), 1,8-diazabicyclo[4.3.0]non-5-ene (4.32 mL, 1.2 eq.) and benzene (100 mL) and the mixture was heated to reflux for 1 h. Following addition of hexane (100 mL), the mixture was filtered through a silica gel pad and the filter cake washed with ether-hexane (1:1, v/v) until

free of product. The filtrate was concentrated in vacuo to give the methyl ester as a colorless liquid (5.12 g, 96%). (20b) Following a procedure analogous to (1a), ibuprofen methyl ester from (20a) (4.655 g) was reacted with sodium 5 bis(trimethylsilyl)amide and allyl bromide to yield crude product (6.39 g) as a yellow liquid. This material was used in the subsequent reaction without purification. (20c) Following a procedure analogous to (1c), the crude material from (20b) (6.19 g) was ozonolyzed to give crude aldehyde (6.53 g) as a yellow oil. This material was used in 10 the subsequent reaction without purification. (20d) Following a procedure analogous to (1d), crude aldehyde from (20c) (2.05 g) was reacted with D-alanine methyl ester hydrochloride. Silica gel chromatography (ethyl acetate-15 hexane, 20:80 then 30:70) gave less polar isomer (371.8 mg), more polar isomer (289.6 mg), and a 1:3 mixture of the two isomers (337.8 mg). The total yield is 999.2 mg (49% for three steps). MS found: $(M+H)^{+} = 318.$ (20e) Following a procedure analogous to (1e), the less polar isomer from (20d) (210 mg, 0.660 mmol) was reacted with 20 hydroxylamine to give the hydroxamic acid (186.7 mg, 89%). found: $(M-H)^{-} = 317$. (20f) Following a procedure analogous to (1e), the more polar isomer from (20d) (200 mg, 0.630 mmol) was reacted with hydroxylamine to give the hydroxamic acid (167.2 mg, 83%) as a 25

white solid. MS found: $(M-H)^{-} = 317$.

Example 21

[1(R)]-N-hydroxy- α ,3-dimethyl-2-oxo-3-phenyl-1-pyrrolidineacetamide

(21a) Following a procedure analogous to (20a), 2-phenylpropionic acid (10.0 g, 66.5 mmol) was reacted with iodomethane and 1,8-diazabicyclo[4.3.0]non-5-ene to give the ester (9.57 g, 88%) as a colorless liquid.

35 (21b) Following a procedure analogous to (1a), the methyl ester from (21a) (9.28 g, 56.5 mmol) was reacted with sodium bis(trimethylsilyl)amide and allyl bromide to yield crude

product (11.96 g) as a yellow liquid. This material was used in the subsequent reaction without purification. (21c) Following a procedure analogous to (1c), the crude material from (21b) (6.76 g) was ozonolyzed to give crude aldehyde (8.53 g) as a yellow oil. This material was used in 5 the subsequent reaction without purification. (21d) Following a procedure analogous to (1d), the crude aldehyde from (21c) (1.93 g) was reacted with D-alanine methyl ester hydrochloride. Silica gel chromatography (ethyl acetate-hexane, 30:70 then 40:60) gave less polar isomer (230 10 mg), more polar isomer (270 mg), and a 3:2 mixture of the two isomers (380 mg). The total yield is 880 mg (47% for three steps). MS found: $(M+H)^{+} = 262$. (21e) Following a procedure analogous to (1e), the less polar isomer from (21d) (141.1 mg, 0.540 mmol) was reacted with 15 hydroxylamine to give the hydroxamic acid (141.5 mg, 100%) as a solid. MS found: $(M-H)^{-} = 261$. (21f) Following a procedure analogous to (1e), the more polar isomer from (21d) (165.2 mg, 0.632 mmol) was reacted with hydroxylamine to give the hydroxamic acid (149.6 mg, 90%) as a 20 solid. MS found: $(M-H)^- = 261$.

Example 22

N-hydroxy-2-oxo-3-phenyl-1-pyrrolidineacetamide

(22a) Following a procedure analogous to (1a), methyl 25 phenylacetate (10.0 mL, 69.2 mmol) was reacted with sodium bis(trimethylsilyl)amide and allyl bromide to yield the desired (13.10 g, 100%) as a colorless liquid. (22b) Following a procedure analogous to (1c), the material 30 from (22a) (7.06 g, 36.8 mmol) was ozonolyzed to give crude aldehyde (9.00 g) as a yellow oil. This material was used in the subsequent reaction without purification. (22c) Following a procedure analogous to (1d), the crude aldehyde from (22b) (2.00 g) was reacted with glycine methyl ester hydrochloride. Silica gel chromatography (ethyl 35 acetate-hexane, 50:50) gave the desired lactam (1.05 g, 55% for two steps).

(22d) Following a procedure analogous to (1e), the lactam from (22c) (433.8 mg, 1.86 mmol) was reacted with hydroxylamine to give the hydroxamic acid (261 mg, 60%) as a yellow powder. MS found: $(M-H)^{-} = 233$.

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Example 23

(+/-)-N-hydroxy-3-methyl-2-oxo-3-phenyl-1-pyrrolidineacetamide

(23a) Following a procedure analogous to (1d), the crude

10 aldehyde from (21c) (2.19 g) was reacted with glycine methyl
ester hydrochloride. Silica gel chromatography (ethyl
acetate-hexane, 35:65) gave the desired lactam (650 mg, 32%
for three steps) as a colorless oil. MS found: (M+H)⁺ = 248.

(23b) Following a procedure analogous to (1e), the lactam from

(23a) (433.8 mg, 1.86 mmol) was reacted with hydroxylamine to
give the hydroxamic acid (261 mg, 90%) as a white powder. MS
found: (M-H)⁻ = 247.

Example 24

[1(R)]-N-hydroxy-α-methyl-2-oxo-3-phenyl-1pyrrolidineacetamide

(24a) Following a procedure analogous to (1d), the crude aldehyde from (22b) (2.00 g) was reacted with D-alanine methyl ester hydrochloride. Silica gel chromatography (ethyl 25 acetate-hexane, 30:70 then 40:60 then 50:50) gave less polar isomer (309.3 mg), more polar isomer (347.2 mg), and a 1:1 mixture of the two isomers (163.4 mg). The total yield is 819.9 mg (41% for two steps). MS found: $(M+H)^{+} = 248.$ (24b) Following a procedure analogous to (1e), the less polar 30 isomer from (24a) (243.7 mg, 0.985 mmol) was reacted with hydroxylamine to give the hydroxamic acid (210 mg, 86%) as a white solid. MS found: $(M-H)^{-} = 247$. (24c) Following a procedure analogous to (1e), the more polar isomer from (24a) (202.8 mg, 0.820 mmol) was reacted with 35 hydroxylamine to give the hydroxamic acid (180 mg, 88%) as a white solid. MS found: $(M-H)^{-} = 247$.

Example 25

[1(R)]-N-hydroxy-3-(4-methoxyphenyl)- α -methyl-2-oxo-1-pyrrolidineacetamide

(25a) Following a procedure analogous to (1c), the crude

material from (2a) (8.22 g) was ozonolyzed to give crude
aldehyde (8.22 g) as a yellow oil. This material was used in
the subsequent reaction without purification.
(25b) Following a procedure analogous to (1d), the crude
aldehyde from (25a) (2.21 g) was reacted with D-alanine methyl
ester hydrochloride. Silica gel chromatography (ethyl
acetate-hexane, 45:55 then 50:50) gave less polar isomer
(215.8 mg), more polar isomer (181.1 mg), and a 1:1 mixture of
the two isomers (623 mg). The total yield is 1.020 g (49% for
three steps). MS found: (M+H) = 278.

15 (25c) Following a procedure analogous to (1e), the less polar isomer from (25b) (154.6 mg, 0.557 mmol) was reacted with hydroxylamine to give the hydroxamic acid (120.4 mg, 78%) as a viscous oil. MS found: (M-H) = 277.
(25d) Following a procedure analogous to (1e), the more polar

isomer from (25b) (130.3 mg, 0.470 mmol) was reacted with hydroxylamine to give the hydroxamic acid (117.9 mg, 90%) as a solid. MS found: (M-H) = 277.

Example 26

25 [1(R)]-3-cyclohexyl-N-hydroxy-α,3-dimethyl-2-oxo-1pyrrolidineacetamide

(26a) A mixture of the more polar isomer from (24a) (36.5 mg, 0.14 mmol), rhodium on alumina (17 mg), 4 N dioxane solution of hydrogen chloride (2 drops) and methanol (2 mL) was

- hydrogenated under 45 psi overnight. The mixture was filtered through a celite pad and the filter cake washed with ethyl acetate-hexane (40:60). The filtrate was concentrated to give the desired product (37.4 mg, 100%) as a colorless liquid. MS found: (M+H)⁺ = 268.
- 35 (26b) Following a procedure analogous to (1e), the ester from (26a) (52.4 mg, 0.196 mmol) was reacted with hydroxylamine to give the hydroxamic acid (25.2 mg, 48%) as a solid. MS found: $(M-H)^{-} = 267$.

Example 27

[1(R)]-N-hydroxy- \alpha,3-dimethyl-2-oxo-3-(2-phenylethyl)1-pyrrolidineacetamide

- 5 (27a) A 2.5 M hexane solution of n-butyllithium (5.12 mL, 1.1 eq) was added dropwise to diisopropylamine (1.80 mL, 1.1 eq) in tetrahydrofuran (50 mL) at 0 °C. The resultant mixture was stirred for 20 min at 0 °C and cooled to -78 °C. A solution of ethyl 2-methyl-4-pentenoate (1.90 mL, 11.7 mmol) in
- tetrahydrofuran (25 mL) was added. The mixture was stirred at -78 °C for 30 min and warmed to 0 °C. 2-Phenylethyl bromide (1.71 mL, 1.05 eq) in tetrahydrofuran (25 mL) was added dropwise. After additional 2 h at 0 °C, saturated ammonium chloride (50 mL) was added and the mixture extracted with
- ethyl acetate (3 x). The combined extracts were washed with brine, dried (MgSO4) and concentrated. Silica gel chromatography (ethyl acetate-hexane, 0:100 then 5:95) gave the desired product (1.95 g, 68%) as a liquid. MS found: $(M+H)^+ = 247$.
- 20 (27b) Following a procedure analogous to (1c), the olefin from (27a) (1.86 g, 7.55 mmol) was ozonolyzed. Silica gel chromatography (ethyl acetate-hexane, 10:90) gave the desired aldehyde (1.67 g, 89%) as a colorless oil. MS found: (M+H)⁺ = 249.
- 25 (27c) Following a procedure analogous to (1d), the aldehyde from (27b) (1.66 g, 6.68 mmol) was reacted with D-alanine methyl ester hydrochloride. Silica gel chromatography (ethyl acetate-hexane, 35:65 then 40:60) gave the lactam (1.32 g, 68%) as a 1:1 mixture of two diastereomers. MS found: (M+H)⁺ 30 = 290.
 - (27d) Following a procedure analogous to (1e), the ester from (27c) (52.4 mg, 0.196 mmol) was reacted with hydroxylamine to give the hydroxamic acid (226.6 mg, 96%) as a 1:1 mixture of two isomers. MS found: $(M-H)^{-} = 289$.

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Example 28

[1(R)]-3-(2-cyclohexylethyl)-N-hydroxy- α ,3-dimethyl-2oxo-1-pyrrolidineacetamide

(28a) Following a procedure analogous to (26a), the ester from (27c) (180 mg, 0.622 mmol) was hydrogenated to give the desired product (184 mg, 100%) as a colorless oil. MS found: $(M+H)^{+} = 296$.

5 (28b) Following a procedure analogous to (1e), the ester from (28a) (160 mg, 0.542 mmol) was reacted with hydroxylamine to give the hydroxamic acid (158 mg, 98%) as a 1:1 mixture of two isomers. MS found: $(M-H)^- = 295$.

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Example 29

[1(R)]-N-hydroxy- α -methyl-2-oxo-3-phenyl-3-(phenylmethyl)-2-oxo-1-pyrrolidineacetamide

(29a) Following a procedure analogous to (20a), 2,3-diphenylacetic acid (10.26 g, 45.34 mmol) was reacted with iodomethane and 1,8-diazabicyclo[4.3.0]non-5-ene to give the ester (10.86 g, 100%) as a colorless liquid. MS found: $(M+H)^{+} = 241$.

(29b) Following a procedure analogous to (1a), the ester from (29a) (10.56 g, 43.9 mmol) was reacted with sodium

bis(trimethylsilyl)amide and allyl bromide to yield crude product (13.13 g) as a pale yellow oil. This material was used in the subsequent reaction without purification.

(29c) Following a procedure analogous to (1c), the crude material from (29b) (6.07 g) was ozonolyzed to give the crude aldehyde (7.10 g) as a yellow oil. This material was used in

aldehyde (7.10 g) as a yellow oil. This material was used in the subsequent reaction without purification.

(29d) Following a procedure analogous to (1d), the crude aldehyde from (29c) (2.08 g) was reacted with D-alanine methyl ester. Silica gel chromatography (ethyl acetate-hexane, 20:80

then 30:70) gave a 1:1 mixture of lactams (1.07 g, 53% for three steps) as a colorless viscous oil. MS found: (M+H)⁺ = 338.

(29e) Following a procedure analogous to (1e), the ester from (29d) (980 mg, 2.90 mmol) was reacted with hydroxylamine to

35 give the hydroxamic acid as a as a 1:1 mixture of two isomers. MS found: $(M-H)^- = 337$.

Example 30

[1(R)]-3,4,4',5'-tetrahydro-N-hydroxy-α-methyl-2oxospiro[naphthalene-2(1H),3'-[3H]pyrrole]-1'(2'H)acetamide

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(30a) Following a procedure analogous to (20a), 1,2,3,4-tetrahydro-2-naphthoic acid (4.50 g, 25.5 mmol) was reacted with iodomethane and 1,8-diazabicyclo[4.3.0]non-5-ene to give the ester (4.62 g, 95%) as a pale yellow liquid. MS found:

10 $(M+H)^{+} = 191.$

(30b) Following a procedure analogous to (1a), the ester from (30a) (4.52 g) was reacted with sodium bis(trimethylsilyl)amide and allyl bromide to yield crude product (5.20 g) as a yellow oil. This material was used in the subsequent reaction without purification.

the subsequent reaction without purification.

(30c) Following a procedure analogous to (1c), the crude olefin from (30b) (5.00 g) was ozonolyzed to give crude aldehyde (5.83 g) as a yellow oil. This material was used in the subsequent reaction without purification.

20 (30d) Following a procedure analogous to (1d), the crude aldehyde from (30c) (2.03 g) was reacted with D-alanine methyl ester hydrochloride. Silica gel chromatography (ethyl acetate-hexane, 30:70 then 40:60) gave a 1:1 mixture of lactams (732.1 mg, 34% for three steps). MS found: (M+H)⁺ = 25 288.

(30e) Following a procedure analogous to (1e), the ester from (30d) (510.7 mg, 1.788 mmol) was reacted with hydroxylamine to give the hydroxamic acid (431 mg, 84%) as a 1:1 mixture of two isomers. MS found: $(M-H)^{-} = 287$.

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Example 31

[1(R)]-3-[4-[(3,5-dibromophenyl)methoxy]phenyl]-N-hydroxy- α , 3-dimethyl-2-oxo-1-pyrrolidineacetamide

Beginning with the phenol from (6a) and 3,5-dibromobenzyl bromide, example 31 was prepared in an analogous series of reactions to (6b) and (6c). MS found: (M-H) = 523.

Example 32 [1(R)]-3-[4-[[3,5-

bis(trifluoromethyl)phenyl]methoxy]phenyl]-N-hydroxy-\alpha, 3-dimethyl-2-oxo-1-pyrrolidineacetamide

Beginning with the phenol from (6a) and 3,5-bis(trifluoromethyl)benzyl bromide, example 32 was prepared in an analogous series of reactions to (6b) and (6c). MS found: $(M-H)^{-} = 503$.

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Example 33

[1(R)]-3-[4-[(3,5-dichlorophenyl)methoxy]phenyl]-N-hydroxy- α ,3-dimethyl-2-oxo-1-pyrrolidineacetamide

Beginning with the phenol from (6a) and 3.5- dichlorobenzyl chloride, example 33 was prepared in an analogous series of reactions to (6b) and (6c). MS found: $(M-H)^- = 435$.

Example 34

[1(R)]-N-hydroxy- α , 3-dimethyl-3-[4-[(2-methyl-1-

naphthalenyl)methoxy[phenyl]-2-oxo-1pyrrolidineacetamide

Beginning with the phenol from (6a) and 1-chloromethyl-2-methylnaphthalene, example 34 was prepared in an analogous series of reactions to (6b) and (6c). MS found: $(M+Na)^{+} = 455$.

Example 35

[1(R)]-3-[4-[(3,5-dimethoxyphenyl)methoxy]phenyl]-N-hydroxy- α , 3-dimethyl-2-oxo-1-pyrrolidineacetamide

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Beginning with the phenol from (6a) and 3.5- dimethoxybenzyl chloride, example 35 was prepared in an analogous series of reactions to (6b) and (6c). MS found: $(M-H)^- = 427$.

Example 36

$\frac{[1(R)]-3-[4-[[4-chloro-2-(trifluoromethyl)-6-}{quinolinyl]methoxy]phenyl]-N-hydroxy-}{\alpha,3-dimethyl-2-}{\alpha \times o-1-pyrrolidineacetamide}$

Beginning with the phenol from (6a) and 6-bromomethyl-4-chloro-2-trifluoromethylquinoline, example 36 was prepared in an analogous series of reactions to (6b) and (6c). MS found:

(M-H) = 520.

10 Example 37

[1(R)]-N-hydroxy- \alpha, 3-dimethyl-2-oxo-3-[4-[[4-(1,2,3-thiadiazol-4-yl)phenyl]methoxy]phenyl]-1 pyrrolidineacetamide

Beginning with the phenol from (6a) and 4-(4
15 bromomethylphenyl)-1,2,3-thiadiazole, example 37 was prepared in an analogous series of reactions to (6b) and (6c). MS found: (M-H) = 451.

Example 38

Beginning with the phenol from (6a) and 2-phenylbenzyl bromide, example 38 was prepared in an analogous series of reactions to (6b) and (6c). MS found: $(M-H)^- = 443$.

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Example 39

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy]phenyl]-N-hydroxy-α,3-dimethyl-2oxo-1-pyrrolidineacetamide

Beginning with the phenol from (6a) and 4-bromomethyl-2,6-dichloropyridine, example 39 was prepared in an analogous series of reactions to (6b) and (6c). MS found: (M-H) = 436.

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Example 40

[1(R)]-3-[4-(1H-benzotriazol-1-ylmethoxy)phenyl]-N-hydroxy- α , 3-dimethyl-2-oxo-1-pyrrolidineacetamide

Beginning with the phenol from (6a) and 1-chloromethylbenzotriazole, example 40 was prepared in an analogous series of reactions to (6b) and (6c). MS found: $(M-H)^{-} = 408$.

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Example 41

[1(R)]-3-[4-[(4,6-dimethyl-2-

pyrimidinyl)methoxy[phenyl]-N-hydroxy- α ,3-dimethyl-2-oxo-1-pyrrolidineacetamide

Beginning with the phenol from (6a) and 2-chloromethyl-4,6-dimethylpyrimidine (Sakamoto et al, Heterocycles 1997, 6, 525), example 41 was prepared in an analogous series of reactions to (6b) and (6c). MS found: (M-H) = 397.

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Example 42

[1(R)]-3-[4-(1,3-benzodioxol-5-ylmethoxy)phenyl]-Nhydroxy- α ,3-dimethyl-2-oxo-1-pyrrolidineacetamide

Beginning with the phenol from (6a) and 3,4-methylenedioxybenzyl chloride, example 42 was prepared in an analogous series of reactions to (6b) and (6c). MS found: $(M-H)^- = 411$.

Example 43

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[1(R)]-3-[4-[(2-chloro-6-ethoxy-4pyridinyl)methoxy]phenyl]-N-hydroxy-α,3-dimethyl-2oxo-1-pyrrolidineacetamide

Beginning with the phenol from (6a) and 4-bromomethy1-2-30 chloro-6-ethoxypyridine, example 43 was prepared in an analogous series of reactions to (6b) and (6c). MS found:

(M-H) = 446.

Example 44

35 [1(R)]-N-hydroxy-α,3-dimethyl-2-oxo-3-[4-(4-quinolinylmethoxy)phenyl]-1-pyrrolidineacetamide

Beginning with the phenol from (6a) and 4-chloromethylquinoline, example 44 was prepared in an analogous

series of reactions to (6b) and (6c). MS found: $(M+H)^{+} = 420$.

Example 45

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$\frac{[1(R)]-3-[4-[(4,5-dimethyl-2-thiazolyl)methoxy]phenyl]-N-hydroxy-\alpha,3-dimethyl-2-thiazolyl)methoxy[phenyl]-N-hydroxy-\alpha,3-dimethyl-2-thiazolyl)methoxy[phenyl]-N-hydroxy-\alpha,3-dimethyl-2-thiazolyl)methoxy[phenyl]-N-hydroxy-\alpha,3-dimethyl-2-thiazolyl)methoxy[phenyl]-N-hydroxy-\alpha,3-dimethyl-2-thiazolyl)methoxy[phenyl]-N-hydroxy-\alpha,3-dimethyl-2-thiazolyl)methoxy[phenyl]-N-hydroxy-\alpha,3-dimethyl-2-thiazolyl)methoxy[phenyl]-N-hydroxy-\alpha,3-dimethyl-2-thiazolyl)methoxy[phenyl]-N-hydroxy-\alpha,3-dimethyl-2-thiazolyl)methoxy[phenyl]-N-hydroxy-\alpha,3-dimethyl-2-thiazolyl]$

oxo-1-pyrrolidineacetamide

Beginning with the phenol from (6a) and 2-bromomethyl-4,5-dimethylthiazole, example 45 was prepared in an analogous series of reactions to (6b) and (6c). MS found: (M-H) = 402.

Example 46

[1(R)]-3-[4-[(2,6-dimethyl-4-

pyridinyl)methoxylphenyll-N-hydroxy-α,3-dimethyl-2oxo-1-pyrrolidineacetamide mono(trifluoroacetate)

Beginning with the phenol from (6a) and 4-chloromethyl-2,6-dimethylpyridine, example 46 was prepared in an analogous series of reactions to (6b) and (6c). MS found: $(M+H)^{+}=398$.

Example 47

[1(R)]-N-hydroxy- \alpha, 3-dimethyl-3-[4-[(3-methyl-5-nitrophenyl)methoxy]phenyl]-2-oxo-1pyrrolidineacetamide

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(47a) Following a procedure analogous to (6b), the phenol from (6a) (500 mg, 1.80 mmol) was reacted with 5-methyl-3-nitrobenzyl bromide to give the desired ether (690 mg, 90%).

30 MS found: (M+Na)⁺ = 449.

(47b) Following a procedure analogous to step (1f), the ester from (47a) (67.4 mg, 0.158 mmol) was reacted with hydroxylamine to give the hydroxamic acid (48.7 mg, 72%). MS

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found: $(M-H)^{-} = 426$.

Example 48

[1(R)]-3-[4-[(3-amino-5-methylphenyl)methoxy]phenyl]-N-hydroxy- α ,3-dimethyl-2-oxo-1-pyrrolidineacetamide

(48a) Zinc powder (2.5 g) was added to the ester from (47a) (670 mg, 1.57 mmol) in acetic acid (10 mL) and the mixture was stirred at 50 °C for 2 h. The solid was removed by filtration and washed with ethyl acetate. The filtrate was concentrated, treated with brine (15 mL) and 1 N NaOH (15 mL), and extracted with ethyl acetate (3 x). The combined extracts were dried (MgSO4) and concentrated. Silica gel chromatography (ethyl acetate-hexane, 45:55 then 55;45) gave the desired aniline (610 mg, 98%). MS found: $(M+H)^+ = 397$.

10 (48b) Following a procedure analogous to step (1f), the ester from (48a) (80 mg, 0.202 mmol) was reacted with hydroxylamine to give the hydroxamic acid (63 mg, 79%). MS found: (M-H) = 396.

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Example 49

$\frac{[1(R)]-3-[4-[[3-(acetylamino)-5-}{acetylamino)-5-}$ methylphenyl]methoxy]phenyl]-N-hydroxy- α , 3-dimethyl-2oxo-1-pyrrolidineacetamide

(49a) Hunig's base (74 mg, 5 eq) and acetyl chloride (23 mg, 2
eq) were added sequentially to the aniline from (48a) (58 mg,
0.146 mmol) in dichloromethane (2.5 mL) at 0 °C. After 30 min
at this temperature, saturated NaHCO3 (5 mL) and ethyl acetate
(100 mL) were added. The organic phase was separated, washed
with brine (5 mL), dried (MgSO4) and concentrated. Silica gel
chromatography (ethyl acetate-hexane, 70:30) gave the
acetamide (45 mg, 78%). MS found: (M+Na) = 461.
(49b) Following a procedure analogous to step (1f), the ester
from (49a) (40 mg, 0.091 mmol) was reacted with hydroxylamine
to give the hydroxamic acid (27 mg, 67%). MS found: (M-H) =
30 438.

Example 50

[1(R)]-1,1-dimethylethyl [2-[[3-[[4-[1-[2-(hydroxyamino)-1-methyl-2-oxoethyl]-3-methyl-2-oxo-3-pyrrolidinyl]phenoxy]methyl]-5-methylphenyl]amino]-2-oxoethyl]carbamate

(50a) A mixture of the aniline from (48a) (100 mg, 0.252 mmol), N-(t-butoxycarbonyl)glycine (53 mg, 1.2 eq), BOP-Cl

(70.6 mg, 1.1 eq), NMM (76.5 mg, 3 eq) and THF (10 mL) were heated to reflux for 30 min. Following addition of water (15 mL) and sat K2CO3, THF was removed in vacuo. The aqueous residue was extracted with ethyl acetate (3 x 40 mL). The combined organic extracts were dried (MgSO4) and concentrated. Silica gel chromatography (MeOH-CH2Cl2, 5:95) gave the desired amide (130 mg, 93%). MS found: (M+Na)⁺ = 576.

(50b) Following a procedure analogous to step (1f), the ester from (50a) (120 mg, 0.217 mmol) was reacted with hydroxylamine to give the hydroxamic acid (100 mg, 83%). MS found: (M-H)⁻ = 553.

Example 51

[1(R)]-3-[4-[[3-[(aminoacetyl)amino]-5methylphenyl]methoxy]phenyl]-N-hydroxy-α,3-dimethyl-2oxo-1-pyrrolidineacetamide mono(trifluoroacetate)

The hydroxamic acid from (50b) (60 mg, 0.108 mmol) was stirred with trifluoroacetic acid (1 mL) and CH_2Cl_2 (1 mL) for 2 h at rt and concentrated to give the TFA salt (58 mg, 94%). MS found: $(\text{M}+\text{H})^+=455$.

Example 52

[1(R)]-1,1-dimethylethyl [2-[[2-[[3-[[4-[1-[2-(hydroxyamino)-1-methyl-2-oxoethyl]-3-methyl-2-oxo-3-pyrrolidinyl]phenoxy]methyl]-5-methylphenyl]amino]-2-oxoethyl]amino]-2-oxoethyl]carbamate

Beginning with the aniline from (48a) and BOC-Gly-Gly-OH, example 52 was prepared in an analogous series of reactions to (50a) and (50b). MS found: $(M+Na)^+ = 634$.

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Example 53

[1(R)]-3-[4-[[3-[[(aminoacetyl)amino]acetyl]amino]-5-methylphenyl]methoxy]phenyl]-N-hydroxy- \alpha, 3-dimethyl-2oxo-1-pyrrolidineacetamide mono(trifluoroacetate)

Beginning with the hydroxamic acid from example 52, example 53 was prepared following a procedure analogous to example 51. MS found: $(M+H)^+ = 512$.

Example 54

[1(R)]-N-[3-[[4-[1-[2-(hydroxyamino)-1-methyl-2oxoethyl]-3-methyl-2-oxo-3-

pyrrolidinyl]phenoxy]methyl]-5-methylphenyl]-4morpholinecarboxamide

Beginning with the aniline from (48a) and 4-morpholinecarbonyl chloride, example 54 was prepared in an analogous series of reactions to example 49. MS found: $(M-H)^{-} = 509$.

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Example 55

$3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N-hydroxy-<math>\alpha,\alpha,3$ -trimethyl-2-oxo-1-pyrrolidineacetamide

(55a) Following a procedure analogous to step (1d), the

15 aldehyde from (1c) (1.50 g, 4.81 mmol) was reacted with α aminoisobutyric acid methyl ester hydrochloride to give the lactam (396 mg, 22%). MS found: $(M+H)^{+} = 382.$ (55b) Following a procedure analogous to step (3a), the lactam from (55a) (378 mg, 992 mmol) was hydrogenolized to give the phenol (270 mg, 93%). MS found: $(M-H)^{-} = 290$. 20 (55c) Following a procedure analogous to step (6b), the phenol from (55b) (128 mg, 0.440 mmol) was reacted with 4bromomethyl-2,6-dichloropyridine to give the picolyl ether (153 mg, 77%). MS found: $(M+Na)^{+} = 473.$ (55d) The ester from (55c) was stirred in THF (3 mL) and 1 N 25 NaOH (10 mL) at rt overnight. The mixture was acidified to pH 4 with 1 N HCl and THF removed in vacuo. The aqueous residue was extracted with ethyl acetate. The combined extracts were washed with brine, dried (MgSO4) and concentrated to give the carboxylic acid (137 mg, 94%). MS found: $(M-H)^- = 435$. 30 (55e) Hunig's base (148 mg, 4 eq), hydroxylamine hydrochloride (40 mg, 2 eq) and BOP (152 mg, 1.2 eq) were added to the acid from (55d) (125 mg, 0.286 mmol) in DMF (5 mL) at 0 °C. the

mixture was stirred at rt for 24 h and at 60 °C for 3 h. Sat

ammonium chloride was added and the mixture extracted with

ethyl acetate (2 x). The extracts were washed with sat NaHCO3, water and brine, dried (MgSO4) and concentrated.

Silica gel chromatography (methanol-chloroform, 8:92) provided the hydroxamic acid (50 mg, 39%). MS found: $(M+Na)^{+} = 479$.

Example 56

5 [1(R)]-3-[1,1'-biphenyl]-4-yl-N-hydroxy-α,3-dimethyl-2-oxo-1-pyrrolidineacetamide

(56a) Triflic anhydride (1.45 mL, 2.2 eq) was added dropwise to a solution of the phenol from (6a) (1.09 g, 3.93 mmol) and 2,6-lutidine (1.01 mL, 2.2 eq) in CH2Cl2 (50 mL) at 0 °C.

- 10 After 10 min at this temperature, hexane (200 mL) was added. The mixture was filtered through a silica gel pad and the filter cake washed with ethyl acetate-hexane (1:1) until free of product. The filtrate was concentrated to give the triflate (1.49 g, 93%). MS found: (M-H) = 408.
- 15 (56b) A mixture of the triflate from (56a) (150 mg, 0.366 mmol), benzeneboronic acid (89.3 mg, 2 eq), triphenylphosphine (96 mg, 1 eq), potassium carbonate (202 mg, 4 eq) and anhydrous toluene (10 mL) was pumped then filled with nitrogen for 10 cycles to remove oxygen. Palladium(II) acetate (16.4
- mg, 0.2 eq) was then quickly added and the flask was again deoxygenated for 10 cycles. This mixture was heated to reflux for 18 h. Following addition of ethyl acetate, the mixture was washed with water (2 x), brine, dried (MgSO4) and concentrated. Silica gel chromatography (ethyl acetate-
- 25 hexane, 25:75 then 50:50) give the biphenyl (118 mg, 96%). MS found: (M+Na)⁺ = 360.
 - (56c) Following a procedure analogous to step (1f), the ester from (56b) (100 mg, 0.297 mmol) was reacted with hydroxylamine to give the hydroxamic acid (52 mg, 52%). MS found: $(M+H)^{+} = 339$.

30 339.

Example 57

[1(R)]-N-hydroxy- α , 3-dimethyl-3-(2'-methyl[1,1'-biphenyl]-4-yl)-2-oxo-1-pyrrolidineacetamide

Beginning with the triflate from (56a) and 2-methylbenzeneboronic acid, example 57 was prepared in an analogous series of reactions to (56b) and (56c). MS found: $(M+H)^{+} = 353$.

Example 58

[1(R)]-N-hydroxy-\alpha, 3-dimethyl-3-(4'-methyl[1,1'-biphenyl]-4-yl)-2-oxo-1-pyrrolidineacetamide

Beginning with the triflate from (56a) and 4-methylbenzeneboronic acid, example 58 was prepared in an analogous series of reactions to (56b) and (56c). MS found: $(M+H)^+ = 353$.

10 Example 59

[1(R)-3-(3',4'-dimethoxy[1,1'-biphenyl]-4-yl)-N-hydroxy- α , 3-dimethyl-2-oxo-1-pyrrolidineacetamide

Beginning with the triflate from (56a) and 3,4-dimethoxybenzeneboronic acid, example 59 was prepared in an analogous series of reactions to (56b) and (56c). MS found: $(M-H)^{-} = 397$.

Example 60

[1(R)]-N-hydroxy- α , 3-dimethyl-2-oxo-3-[2'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-1-

pyrrolidineacetamide

Beginning with the triflate from (56a) and 2-trifluoromethylbenzeneboronic acid, example 60 was prepared in an analogous series of reactions to (56b) and (56c). MS found: $(M-H)^{-} = 405$.

Example 61

$[1(R)]-N-hydroxy-\alpha,3-dimethyl-3-[4-(4-$

methylphenoxy)phenyl]-2-oxo-1-pyrrolidineacetamide

(61a) Copper(II) acetate monohydrate (108 mg, 1 eq), p-tolueneboronic acid (147 mg, 1 eq), and 4 A molecular sieve (400 mg) were added sequentially to the phenol from (6a) (150 mg, 0.541 mmol) and pyridine (0.219 mL, 5 eq) in dichloromethane. The resultant mixture was stirred at rt open to atmosphere for 20 h. The mixture was filtered through a silica gel pad and the filter cake washed with ethyl acetate until free of product. The filtrate was concentrated and purified by silica gel chromatography (ethyl acetate-hexane,

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30:70 then 40:60) to give the phenyl ether (167.4 mg, 84%). MS found: $(M+Na)^+ = 390$.

(61b) Following a procedure analogous to step (1f), the ester from (61a) (154 mg, 0.419 mmol) was reacted with hydroxylamine to give the hydroxamic acid (144 mg, 93%). MS found: $(M-H)^{-}$ = 367.

Example 62

[1(R)]-N-hydroxy- α ,3-dimethyl-2-oxo-3-(4-phenoxyphenyl)-1-pyrrolidineacetamide

Beginning with the phenol from (6a) and benzeneboronic acid, example 62 was prepared in an analogous series of

reactions to (61a) and (61b). MS found: $(M-H)^{-} = 353$.

15 Example 63

$[1(R)]-N-hydroxy-\alpha, 3-dimethyl-3-[4-(2-methylphenoxy)phenyl]-2-oxo-1-pyrrolidineacetamide$

Beginning with the phenol from (6a) and 2-methylbenzeneboronic acid, example 63 was prepared in an analogous series of reactions to (61a) and (61b). MS found: $(M-H)^{-} = 367$.

Example 64

[1(R)]-3-[4-(3,5-dichlorophenoxy)phenyl]-N-hydroxy- α ,3-dimethyl-2-oxo-1-pyrrolidineacetamide

Beginning with the phenol from (6a) and 3,5-dichlorobenzeneboronic acid, example 64 was prepared in an analogous series of reactions to (61a) and (61b). MS found: $(M-H)^{-} = 421$.

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Example 65

[1(R)]-3-[4-(3,4-dimethoxyphenoxy)phenyl]-N-hydroxy- α ,3-dimethyl-2-oxo-1-pyrrolidineacetamide

Beginning with the phenol from (6a) and 3,4
35 dimethoxybenzeneboronic acid, example 65 was prepared in an analogous series of reactions to (61a) and (61b). MS found:

(M-H) = 413.

Example 66

[1(R)]-3-[4-(1,3-benzodioxol-5-yloxy)phenyl]-Nhydroxy- α , 3-dimethyl-2-oxo-1-pyrrolidineacetamide

Beginning with the phenol from (6a) and 3,4- methylenedioxybenzeneboronic acid, example 66 was prepared in an analogous series of reactions to (61a) and (61b). MS found: $(M-H)^- = 397$.

Example 67

[1(R)]-N-hydroxy- \alpha, 3-dimethyl-3-[4-[3-(1-methylethyl)phenoxy]phenyl]-2-oxo-1pyrrolidineacetamide

Beginning with the phenol from (6a) and 3-isopropylbenzeneboronic acid, example 67 was prepared in an analogous series of reactions to (61a) and (61b). MS found: $(M-H)^{-} = 395$.

Example 68

[1(R)]-N-hydroxy-3-[4-(3-methoxyphenoxy)phenyl]- α ,3-dimethyl-2-oxo-1-pyrrolidineacetamide

Beginning with the phenol from (6a) and 3-methoxybenzeneboronic acid, example 68 was prepared in an analogous series of reactions to (61a) and (61b). MS found: $(M-H)^{-} = 383$.

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Example 69

[1(R)]-N-hydroxy- α , 3-dimethyl-2-oxo-3-[4-(3-thienyloxy)phenyl]-1-pyrrolidineacetamide

Beginning with the phenol from (6a) and thiophene-3-boronic acid, example 69 was prepared in an analogous series of reactions to (61a) and (61b). MS found: $(M-H)^{-} = 359$.

Example 70

[1(R)]-N-hydroxy- α ,3-dimethyl-2-oxo-3-[4-(3,4,5-trimethoxyphenoxy)phenyl]-1-pyrrolidineacetamide

Beginning with the phenol from (6a) and 3,4,5trimethoxybenzeneboronic acid, example 70 was prepared in an

analogous series of reactions to (61a) and (61b). MS found: $(M-H)^{-} = 443$.

Example 71

[1(R)]-3-[4-[3,5-bis(trifluoromethyl)phenoxy]phenyl]-N-hydroxy- α ,3-dimethyl-2-oxo-1-pyrrolidineacetamide

Beginning with the phenol from (6a) and 3.5-bis(trifluoromethyl)benzeneboronic acid, example 71 was prepared in an analogous series of reactions to (61a) and (61b). MS found: $(M+H)^+ = 491$.

Example 72

$[1(R)]-N-hydroxy-\alpha,3-dimethyl-3-[4-(1-$

naphthalenyloxy)phenyl]-2-oxo-1-pyrrolidineacetamide

Beginning with the phenol from (6a) and 1-naphthaleneboronic acid, example 72 was prepared in an analogous series of reactions to (61a) and (61b). MS found: $(M+H)^+ = 405$.

Example 73

[1(R)] - N - hydroxy - 3 - [4 - [3 -

[(hydroxyimino)methyl]phenoxy]phenyl]- α ,3-dimethyl-2-

25 oxo-1-pyrrolidineacetamide

Beginning with the phenol from (6a) and 3-formylbenzeneboronic acid, example 73 was prepared in an analogous series of reactions to (61a) and (61b). MS found: $(M+H)^+ = 398$.

Example 74

[1(R)]-N-hydroxy-3-[4-[4-[1-

(hydroxyimino)ethyl]phenoxy]phenyl]- α , 3-dimethyl-2-

35 <u>oxo-1-pyrrolidineacetamide</u>

Beginning with the phenol from (6a) and 4-acetylbenzeneboronic acid, example 74 was prepared in an

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analogous series of reactions to (61a) and (61b). MS found: $(M-H)^{-} = 410$.

Example 75

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Beginning with the phenol from (6a) and 4-biphenylboronic acid, example 75 was prepared in an analogous series of reactions to (61a) and (61b). MS found: $(M+H)^{+} = 431$.

Example 76

[1(R)]-3-[4-(3,5-dibromophenoxy)phenyl]-N-hydroxy- \alpha,3-dimethyl-2-oxo-1-pyrrolidineacetamide

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Beginning with the phenol from (6a) and 3,5-dibromobenzeneboronic acid, example 76 was prepared in an analogous series of reactions to (61a) and (61b). MS found: $(M+H)^+ = 510$.

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Example 77

[1(R)]-3-[4-[3-(acetylamino)phenoxy]phenyl]-N-hydroxy- α , 3-dimethyl-2-oxo-1-pyrrolidineacetamide

Beginning with the phenol from (6a) and 3acetamidobenzeneboronic acid, example 77 was prepared in an
analogous series of reactions to (61a) and (61b). MS found:

(M+H)⁺ = 412.

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Example 78 $[1(R)]-N-hydroxy-\alpha,3-dimethyl-3-[4-(4-$

nitrophenoxy)phenyl]-2-oxo-1-pyrrolidineacetamide

(78a) Cesium carbonate (254 mg, 1.8 eq) was added to the phenol from (6a) (120 mg, 0.433 mmol) and 1-fluoro-4-nitrobenzene (122 mg, 2 eq) in DMSO (2 mL). After 1 h at rt, sat ammonium chloride (3 mL) and ethyl acetate (100 mL) were added. The mixture was washed with water (2x5 mL), brine (5 mL), dried (MgSO4) and concentrated. Silica gel

chromatography (ethyl acetate-hexane, 50:50) gave the phenyl ether (139.7 mg, 81%). MS found: $(M+H)^+ = 399$. (78b) Following a procedure analogous to step (1f), the ester from (78a) (125 mg, 0.314 mmol) was reacted with hydroxylamine to give the hydroxamic acid (80.6 mg, 64%). MS found: $(M-H)^- = 398$.

Example 79

[1(R)]-N-hydroxy- α , 3-dimethyl-3-(4-methylphenyl)-2oxo-1-pyrrolidineacetamide

Beginning with methyl (4-methylphenyl)acetate, example 79 was prepared in an analogous series of reactions to example 1. MS found: $(M-H)^{-} = 275$.

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Example 80

[1(R)]-3-[4-[[(2,6-dimethyl-4-

pyridinyl)oxy]methyl]phenyl]-N-hydroxy- α,3-dimethyl-2oxo-1-pyrrolidineacetamide mono(trifluoroacetate)

(80a-d) Beginning with methyl (4-methylphenyl)acetate, methyl (R)- α ,3-dimethyl-2-oxo-3-(4-methyl phenyl)-1-

pyrrolidineacetate was prepared in an analogous series of reactions to (la-d). The two isomers were separated by silica gel chromatography (ethyl acetate-hexane, 20:80 then 25:75). The more polar isomer was used for subsequent reactions. MS

The more polar isomer was used for subsequent reactions. MS found: $(M+H)^+ = 276$.

(80e) N-bromosuccinimide (1.45 g, 1.05 eq) and benzoyl peroxide (28.2 mg, 0.015 eq) were added to the more polar

ester from (80d) (2.14 g, 7.77 mmol) in carbon tetrachloride (50 mL). The suspension was stirred under two 250 W sun lamp

radiation for 2 h. The mixture was concentrated and purified by silica gel chromatography (ethyl acetate-hexane, 20:80 then 30:70) to give the bromide (1.784 g, 65%). MS found: (M+H)⁺

= 354.

(80f) Cesium carbonate (199 mg, 1.8 eq) was added to the bromide from (80e) (120 mg, 0.339 mmol) and 2,6-dimethyl-4-phenol (83 mg, 2 eq) in DMSO (4 mL). After 3 h at rt, sat ammonium chloride was added. The mixture was extracted with ethyl acetate (3 x). The combined extracts were washed with

brine, dried (MgSO4) and concentrated. Silica gel chromatography (methanol-chloroform, 7:93) gave the pyridinyl ether (35 mg, 26%). MS found: $(M+H)^{+} = 397$. (80g) Following a procedure analogous to step (1f), the ester from (80f) (30 mg, 0.0758 mmol) was reacted with hydroxylamine. The hydroxamic acid was isolated as a TFA salt (15 mg, 39%). MS found: $(M+H)^{+} = 398$.

Example 81

[1(R)]-N-hydroxy- \alpha, 3-dimethyl-2-oxo-3-[4-[(4quinolinyloxy)methyl]phenyl]-1-pyrrolidineacetamide mono(trifluoroacetate)

Beginning with the bromide from (80e) and 4-hydroxyquinoline, example 81 was prepared in an analogous series of reactions to (80f) and (80g). MS found: $(M+H)^{+}$ = 420.

Example 82

[1(R)]-N-hydroxy- \alpha, 3-dimethyl-3-(4-nitrophenyl)-2-oxo 1-pyrrolidineacetamide

(82a) DBU (25.33 mL, 1.1 eq) was added dropwise to a mixture of 2-(4-nitrophenyl)propionic acid (30.00 g, 154 mmol) and iodomethane (10.55 mL, 1.1 eq) in toluene (250 mL). After 30 min at rt, ether (200 mL) was added. The mixture was filtered through a silica gel pad and the filter cake washed with ethyl acetate-hexane (1:1) until free of solvent. The combined filtrate was concentrated to give the ester (25.85 g, 80%). MS found: $M^{\dagger} = 209$.

(82b) Sodium hydride (2.76 g, 1.2 eq, 60% in mineral oil) was added to the ester from (82a) (12.00 g, 57.4 mmol) and allyl bromide (9.93 mL, 2 eq) in DMF (200 mL) at 0 °C. After 30 min at rt, sat NH4Cl (200 mL) was added and the mixture was concentrated to dryness in vacuo. The solid was treated with water (200 mL) and extracted with ether (3x200 mL). The combined extracts were washed with water, brine, dried (MgSO4)

35 combined extracts were washed with water, brine, dried (MgSO4) and concentrated. The crude material was used in the next step without purification.

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(82c) A 1 N solution of NaOH (100 mL) was added to half of the crude material from (82b) in methanol (200 mL). The mixture was stirred at rt overnight and at reflux for 1 h. Following removal of methanol in vacuo, the aqueous residue was washed with hexane (2x100 mL) to remove mineral oil. 5 The combined hexane washings were back extracted with 1 N NaOH (30 mL). The combined aqueous layer was acidified with 1 N HCl (180 mL), saturated with solid NaCl, and extracted with ethyl acetate (3x250 mL). The combined organic extracts were washed 10 with brine (30 mL), dried (MgSO4) and concentrated to give the carboxylic acid (6.38 g, 94% for 2 steps). (82d) HATU (11.17 g, 1.1 eq) and NMM (10.27 mL, 3.5 eq) were added to the acid from (82c) (6.28 g, 26.7 mmol) and D-alanine methyl ester hydrochloride (4.10 g, 1.1 eq) in DMF (50 mL).

- 15 After 2 h at rt, ethyl acetate (750 mL) was added. The mixture was washed with 1 N HCl (3x50 mL), water (50 mL), sat NaHCO3 (2x50 mL), water (50 mL), and brine (50 mL), dried (MgSO4) and concentrated. The crude material was used in the next step without purification. MS found: (M+H)⁺ = 321.
- 20 (82e) Ozone was bubbled through a solution of the crude olefin from (82d) in dichloromethane (200 mL) and methanol (100 mL) at -78 °C until starting material consumed. the mixture was purged with oxygen and treated with triphenylphosphine (7.00 g, 1.0 eq). After 1 h at rt, the mixture was concentrated.
- 25 The crude material was used in the next step without purification.
 - (82f) Triethylsilane (42.6 mL, 10 eq) and trifluroacetic acid (20.6 mL, 10 eq) were added successively to the crude aldehyde from (82e) in dichloromethane at 0 °C. After 2 h at rt, the mixture was concentrated and purified by silica gel
 - chromatography (ethyl acetate-toluene-hexane, 20:10:70 then 25:10:65 then 30:10:60 then 35:10:55) to give less polar lactam (2.211 mg), more polar lactam (2.184 g), and a 1:1 mixture of the two isomers (0.44 g). The total yield of the two isomers is 4.835 g (59% for three steps). MS found:
- 35 two isomers is 4.835 g (59% for three steps). MS found: $(M+H)^+ = 307$.
 - (82g) Following a procedure analogous to step (1f), the more polar ester from (82f) (100 mg, 0.326 mmol) was reacted with

hydroxylamine to give the hydroxamic acid (93.8 mg, 94%). MS found: $(M-H)^{-} = 306$.

Example 83

$[1(R)]-N-hydroxy-\alpha, 3-dimethyl-2-oxo-3-[4-$ [(phenylcarbonyl)amino]phenyl]-1-pyrrolidineacetamide

(83a) The more polar isomer from (82f) (1.97 g, 6.43 mmol) and 10% Pd on carbon (0.5 g) in methanol (50 mL) and chloroform (50 mL) was stirred under balloon pressure hydrogen for 2 h. Following removal of catalyst by filtration, the filtrate was concentrated to give the aniline (1.83 g, 100%). MS found: $(M+H)^{+} = 277$.

(83b) Following a procedure analogous to step (49a), the aniline from (83a) (100 mg, 0.362 mmol) was reacted with benzoyl chloride to give the benzamide (124 mg, 90%). MS found: $(M+Na)^+ = 403$.

(83c) Following a procedure analogous to step (1f), the benzamide from (83b) (110 mg, 0.289 mmol) was reacted with hydroxylamine to give the hydroxamic acid (100 mg, 91%). MS found: $(M-H)^- = 380$.

Example 84

[1(R)]-N-hydroxy-\alpha,3-dimethyl-2-oxo-3-[4-[(phenylsulfonyl)amino]phenyl]-1-pyrrolidineacetamide

Beginning with the aniline from (83b) and benzenesulfonyl chloride, example 84 was prepared in an analogous series of reactions to (49a) and (1f). MS found: $(M+Na)^{+} = 440$.

30 Example 85

[1(R)]-N-hydroxy-\alpha, 3-dimethyl-2-oxo-3-[4-[[(phenylamino)carbonyl]amino]phenyl]-1pyrrolidineacetamide

Beginning with the aniline from (83b) and phenyl isocyanate, example 85 was prepared in an analogous series of reactions to (49a) and (1f). MS found: $(M+Na)^+ = 419$.

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Example 86

[1(R)]-N-hydroxy-\alpha,3-dimethyl-3-[4-[(1-naphthalenylmethyl)amino]phenyl]-2-oxo-1-pyrrolidineacetamide

(86a) Hunig's base (0.13 mL, 2 eq), 1-naphthaldehyde (62.2 mg, 1.1 eq) and 4 A molecular sieves (300 mg) were added to the aniline from (83a) (100 mg, 0.362 mmol) in 1,2-dichloroethane (3 mL). After 30 min at rt, NaBH(OAc)3 (230 mg, 3 eq) was added and the mixture was stirred for 36 h. The precipitate was removed by filtration. The filtrate was concentrated and purified by silica gel chromatography (ethyl acetate-hexane, 50:50) to give the secondary amine (117 mg, 78%). MS found: (M+Na)⁺ = 439.
(86b) Following a procedure analogous to step (1f), the ester from (86a) (108 mg, 0.260 mmol) was reacted with hydroxylamine

Example 87

20 [1(R)]-N-hydroxy-α,3-dimethyl-2-oxo-3-[4-[(4quinolinylmethyl)amino]phenyl]-1-pyrrolidineacetamide

to give the hydroxamic acid (75.4 mg, 70%). MS found:

 $(M+Na)^{+} = 440.$

Beginning with the aniline from (83b) and quinoline-4-carboxaldehyde, example 87 was prepared in an analogous series of reactions to (86a) and (1f). MS found: $(M+H)^{+} = 419$.

Example 88 [1(R)]-3-[4-[[(3,5-

dimethoxyphenyl)methyl]amino]phenyl]-N-hydroxy-\alpha,3-dimethyl-2-oxo-1-pyrrolidineacetamide

Beginning with the aniline from (83b) and 3,5-dimethoxybenzaldehyde, example 88 was prepared in an analogous series of reactions to (86a) and (1f). MS found: $(M-H)^{-} = 426$.

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Example 89

3-[4-[(3,5-dimethylphenyl)methoxy]phenyl]-N-hydroxy-3methyl-2-oxo-1-pyrrolidineacetamide

Beginning with the aldehyde from (1c) and glycine methyl ester hydrochloride, example 89 was prepared in an analogous series of reactions to (1d), (3a), (6b) and (1f), but using 3,5-dimethylbenzyl bromide in step (6b). MS found: $(M+Na)^{+} = 405$.

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Example 90

3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N-hydroxy-3-methyl-2-oxo-1-pyrrolidineacetamide

Beginning with the aldehyde from (1c) and glycine methyl ester hydrochloride, example 90 was prepared in an analogous series of reactions to (1d), (3a), (6b) and (1f), but using 4-bromomethyl-2,6-dichloropyridine in step (6b). MS found: $(M+H)^+ = 424$.

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Example 91

3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N-hydroxy-3-methyl-2-oxo-1-pyrrolidineacetamide

Beginning with the aldehyde from (1c) and glycine methyl ester hydrochloride, example 91 was prepared in an analogous series of reactions to (1d), (3a), (6b) and (1f), but using 4-bromomethyl-2,6-dimethylpyridine hydrochloride in step (6b). MS found: $(M+H)^{+} = 424$.

Example 92

30 [1(R)]-N-hydroxy-3-methyl-α-(1-methylethyl)-2-oxo-3[4-(4-quinolinylmethoxy)phenyl]-1-pyrrolidineacetamide mono(trifluoroacetate)

(92a) Following a procedure analogous to step (1d), the aldehyde from (1c) (3.00 g, 9.61 mmol) was reacted with D-valine methyl ester hydrochloride to give the lactam as mixture of two isomers. Silica gel chromatography (etherhexane, 50:50 then 85:15) provided the less polar isomer (1.25 g, 30%). MS found: $(M+Na)^+ = 418$.

(92b) Following a procedure analogous to step (3a), the less polar lactam from (92a) (1.25 g, 3.18 mmol) was hydrogenolized to give the phenol (0.915 g, 94%). MS found: $(M+H)^{+} = 300$. (92c) Following a procedure analogous to step (6b), the phenol from (92b) (106 mg, 0.348 mmol) was reacted with 4-chloromethylquinoline to give the phenyl ether (134 mg, 86%). MS found: $(M+H)^{+} = 447$.

(92d) The 1.76 M NH2OH/KOH solution in methanol was prepared fresh following the procedure described in (1e). The ester from (92c) (134 mg, 0.300 mmol) was treated with the hydroxylamine solution (3.4 mL, 20 eq). Additional hydroxylamine (2 mL, 0.5 mL and 2 mL) were added after 20 min, 40 min and 1.5 h, respectively. After a total of 2 h, the mixture was neutralized to pH 7 with 1 N HCl and concentrated. Purification—by HPLC (acetonitrile—water—TFA, 15:85:0.1 to 50:50:0.1) provided the hydroxamic acid as a TFA salt (69 mg, 41%). MS found: (M-H) = 446.

Example 93

20 [1(R)]-N-hydroxy-3-methyl-α-(1-methylethyl)-2-oxo-3-[4-(phenylmethoxy)phenyl]-1-pyrrolidineacetamide

Following a procedure analogous to step (1f), the less polar lactam from (92a) was reacted with hydroxylamine to give the hydroxamic acid. MS found: $(M-H)^{-} = 395$.

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Example 94

[1(R)]-3-[4-[(2,6-dimethyl-4-

pyridinyl)methoxylphenyll-N-hydroxy-3-methyl-α-(1methylethyl)-2-oxo-1-pyrrolidineacetamide mono(trifluoroacetate)

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Beginning with the phenol from (92b) and 4-chloromethyl-2,6-dimethylpyridine, example 94 was prepared in an analogous series of reactions to (6b) and (92d). MS found: $(M+H)^{+} = 426$.

Example 95

[1(R)] - 3 - [4 - [(2, 6 - dimethyl - 4 -

pyridinyl)methoxylphenyl]-N-hydroxy-3-methyl-α-(2-methylpropyl)-2-oxo-1-pyrrolidineacetamide

5 (95a) Following a procedure analogous to step (1d), the aldehyde from (1c) (3.00 g, 9.61 mmol) was reacted with Dleucine methyl ester hydrochloride to give the lactam as mixture of two isomers. Silica gel chromatography (ethertoluene, 10:90) provided the less polar isomer (1.20 g, 31%).

MS found: $(M+Na)^{+} = 432$.

(95b) Following a procedure analogous to step (3a), the less polar lactam from (95a) (1.20 g, 2.93 mmol) was hydrogenolized to give the phenol (0.94 g, 100%). MS found: $(M+H)^{+} = 320$.

(95c) Following a procedure analogous to step (6b), the phenol

from (95b) (155 mg, 0.486 mmol) was reacted with 4-chloromethyl-2,6-dimethylpyridine to give the phenyl ether (191 mg, 90%). MS found: (M+H)⁺ = 439.

(95d) Following a procedure analogous to step (1f), the ester from (95c) (140 mg, 0.320 mmol) was reacted with hydroxylamine

to give the hydroxamic acid (115 mg, 82%). MS found: $(M+H)^+$ = 440.

Example 96

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy]phenyl]-N-hydroxy-3-methyl-α-(2-methylpropyl)-2-oxo-1-pyrrolidineacetamide

Beginning with the phenol from (95b) and 4-bromomethyl-2,6-dichloropyridine, example 96 was prepared in an analogous series of reactions to (6b) and (1f). MS found: (M-H) = 479.

Example 97

[1(R)]-3-[4-[3,5-

bis(trifluoromethyl)phenyl]methoxy]phenyl]-N-hydroxy3-methyl-α-(2-methylpropyl)-2-oxo-1pyrrolidineacetamide

Beginning with the phenol from (95b) and 3,5bis(trifluoromethyl)benzyl bromide, example 97 was prepared in

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an analogous series of reactions to (6b) and (1f). MS found: $(M-H)^{-} = 454$.

Example 98

[1(R)]-3-[4-[(3,5-dichlorophenyl)methoxy]phenyl]-N-hydroxy-3-methyl- α -(2-methylpropyl)-2-oxo-1-

pyrrolidineacetamide

Beginning with the phenol from (95b) and 3,5-dichlorobenzyl bromide, example 98 was prepared in an analogous series of reactions to (6b) and (1f). MS found: $(M+H)^+ = 479$.

Example 99

[1(R)]-N-hydroxy-3-methyl- α -(2-methylpropyl)-2-oxo-3-[3-(phenylmethoxy)propyl]-1-pyrrolidineacetamide

(99a) Following a procedure analogous to step (1a), ethyl 2-methyl-4-pentenoate (3.00 g, 21.1 mmol) was reacted with 3-benzyloxy-1-bromopropane to give the crude ester. MS found: $(M+NH4)^{+} = 308$.

(99b) Following a procedure analogous to step (1c), the crude ester from (99a) was ozonolized to give the aldehyde (5.19 g, 84% for 2 steps). MS found: $(M+NH4)^{+} = 310$.

(99c) Following a procedure analogous to step (1d), the
aldehyde from (99b) (5.06 g, 17.3 mmol) was reacted with Dleucine methyl ester hydrochloride to give the lactam as
mixture of two isomers. Silica gel chromatography (ethyl
acetate-hexane, 20:80 then 25:75 then 30:70) provided the less
polar isomer (1.94 g), the more polar isomer (1.66 g) and a

1:1.1 mixture of both isomers (1.86 g). The total yield of both isomers is 5.46 g (84%). MS found: (M+H)⁺ = 376.

(99d) Following a procedure analogous to step (1f), the less polar lactam from (99c) (100 mg, 0.266 mmol) was reacted with hydroxylamine to give the hydroxamic acid (80.6 mg, 80%). MS

found: (M-H) = 375.

(99e) Following a procedure analogous to step (1f), the more polar lactam from (99c) (100 mg, 0.266 mmol) was reacted with

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hydroxylamine to give the hydroxamic acid (81.8 mg, 82%). MS found: $(M-H)^{-} = 375$.

Example 101

(101a) Following a procedure analogous to step (1a), methyl (4-benzyloxy-2-methylphenyl)acetate (5.00 g, 18.5 mmol) was reacted with iodomethane to give the crude ester. MS found: (M+NH4)⁺ = 302.

(101b) Following a procedure analogous to step (1b), the crude material from (101a) was reacted with allyl bromide to give the crude ester. MS found: $(M+NH4)^{+} = 342$.

the crude ester. MS found: (M+NH4)⁺ = 342.

(101c) Following a procedure analogous to step (1c), the crude ester from (101b) was ozonolized to give the aldehyde (5.42 g, 90% for 3 steps). MS found: (M+NH4)⁺ = 344.

(101d) Following a procedure analogous to step (1d), the aldehyde from (101c) (5.28 g, 16.2 mmol) was reacted with D-leucine methyl ester hydrochloride to give the lactam as mixture of two isomers. Silica gel chromatography (ethyl acetate-hexane, 20:80) provided the less polar isomer (1.363 g) and the more polar isomer (1.412 g). MS found: $(M+Na)^+$ =

(101e) Following a procedure analogous to step (1f), the less polar lactam from (101d) (100 mg, 0.262 mmol) was reacted with hydroxylamine to give the hydroxamic acid (65.2 mg, 65%). MS found: $(M-H)^- = 423$.

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446.

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Example 102

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(102a) Following a procedure analogous to step (3a), the less polar lactam from (101d) (1.05 g, 2.48 mmol) was

hydrogenolized to give the phenol (731 mg, 88%). MS found: $(M-H)^{-} = 332$.

(102b) Following a procedure analogous to step (6b), the phenol from (102a) (100 mg, 0.300 mmol) was reacted with 4-bromomethyl-2,6-dichloropyridine to give the picolyl ether (116 mg, 78%). MS found: $(M+Na)^+ = 515$.

(102c) Following a procedure analogous to step (1f), the ester from (102b) (105 mg, 0.213 mmol) was reacted with hydroxylamine to give the hydroxamic acid (70.2 mg, 67%). MS found: $(M-H)^{-} = 492$.

Example 103

$\frac{[1(R)]-N-hydroxy-3-methyl-3-[2-methyl-4-(2-methyl-4-(2-methylpropyl)-2-oxo-maphthalenylmethoxy)phenyl]-\alpha-(2-methylpropyl)-2-oxo-maphthalenylmethoxy)phenyl]-\alpha-(2-methylpropyl)-2-oxo-maphthalenylmethoxy)phenyl]-<math>\alpha$ -(2-methylpropyl)-2-oxo-maphthalenylmethoxy)phenyl

15 <u>1-pyrrolidineacetamide</u>

Beginning with the phenol from (102a) and 1-bromomethylnaphthlene, the desired product was prepared in an analogous series of reactions to (6b) and (1f). MS found: $(M+H)^+ = 475$.

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Example 104

[1(R)]-N-hydroxy-3-methyl-\alpha-(2-methylpropyl)-3-[2-methyl-4-(4-pyridinylmethoxy)phenyl]-2-oxo-1pyrrolidineacetamide

25 Beginning with the phenol from (102a) and 4-chloromethylpyridine, example 104 was prepared in an analogous series of reactions to (6b) and (1f). MS found: (M+H)⁺ = 426.

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Example 105

Beginning with the phenol from (102a) and 4-chloromethyl2,6-dimethylpyridine, example 105 was prepared in an analogous
series of reactions to (6b) and (1f). MS found: (M+H)⁺ =
454.

Example 106

[1(R)]-N-hydroxy-3-methyl- α -[2-(methylthio)ethyl]-2oxo-3-[4-(phenylmethoxy)phenyl]-1-pyrrolidineacetamide

(106a) Following a procedure analogous to step (1d), the aldehyde from (1c) (4.19 g, 13.4 mmol) was reacted with D-methionine methyl ester hydrochloride to give the lactam as a 1:1 mixture of two isomers (4.39 g, 77%). MS found: (M+H)⁺ = 428.

(106b) Following a procedure analogous to step (1f), the

lactam from (106a) (144 mg, 0.337 mmol) was reacted with

hydroxylamine to give the hydroxamic acid (90.7 mg, 63%). MS

found: (M-H) = 427.

Example 107

- 15 [1(R)]-3-[4-(3,5-dibromophenoxy)phenyl]-3-methyl-α-[2-(methylsulfonyl)ethyl]-2-oxo-1-pyrrolidineacetic acid
 - (107a) Oxone (19.0 g, 3 eq) in water (100 mL) was added to the lactam from (106a) (8.80 g, 20.6 mmol) in methanol (100 mL) at 0 °C. After 30 min at 0 °C and 4 h at rt, methanol was
- removed in vacuo. The aqueous residue was diluted with water (300 mL) and extracted with chloroform (3x400 mL). The combined organic extracts were washed with water (50 mL) and brine (50 mL), dried (MgSO4) and concentrated. Silica gel chromatography (ethyl acetate-hexane, 60:40 then 70:30 then
- 100:0) provided the more polar sulfone (2.88 g, 30%). MS found: $(M+Na)^+ = 482$.
 - (107b) Following a procedure analogous to step (3a), the sulfone from (107a) (2.88 g, 6.27 mmol) was hydrogenolized to give the phenol (2.15 g, 93%). MS found: $(M+H)^+ = 370$.
- 30 (107c) Following a procedure analogous to step (61a), the phenol from (107b) (120 mg, 0.325 mmol) was reacted with 3,5dibromobenzeneboronic acid to give the phenyl ether (150 mg, 77%). MS found: (M+H)⁺ = 604.
- (107d) A 1 N solution of LiOH (0.28 mL, 1.3 eq) was added to the ester from (107c) (128 mg, 0.212 mmol) in THF (1.5 mL) at 0 °C. After 30 min at this temperature, the mixture was acidified to pH 2-3. The mixture was concentrated to dryness, treated with ethyl acetate (100 mL), and filtered. The

filtrate was concentrated to give the carboxylic acid (121 mg, 97%). MS found: $(M-H)^{-} = 492$.

Example 108

[1(R)]-3-[4-[3,5-bis(trifluoromethyl)phenoxy]phenyl]-N-hydroxy-3-methyl- α -[2-(methylsulfonyl)ethyl]-2-oxo-

1-pyrrolidineacetamide

Beginning with the phenol from (107b) and 3,5-bis(trifluoromethyl)benzene boronic acid, example 108 was prepared in an analogous series of reactions to (61a) and (1f). MS found: $(M-H)^{-} = 581$.

Example 109

[1(R)]-3-[4-(3,5-dibromophenoxy)phenyl]-N-hydroxy-3methyl- \alpha -[2-(methylsulfonyl)ethyl]-2-oxo-1pyrrolidineacetamide

Following a procedure analogous to step (1f), the lactam from (107c) (156 mg, 0.259 mmol) was reacted with hydroxylamine to give the hydroxamic acid (110 mg, 70%). MS found: $(M-H)^- = 603$.

Example 110

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy]phenyl]-N-hydroxy-3-methyl-α-[2-(methylsulfonyl)ethyl]-2-oxo-1-pyrrolidineacetamide

Beginning with the phenol from (107b) and 4-bromomethyl-2,6-dichloropyridine, example 110 was prepared in an analogous series of reactions to (6b) and (1f). MS found: $(M-H)^{-}$ = 528.

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Example 111

[1(R)]-3-[4-[(2,6-dimethyl-4-

pyridinyl)methoxy]phenyl]-N-hydroxy-3-methyl- α -[2-(methylsulfonyl)ethyl]-2-oxo-1-pyrrolidineacetamide

Beginning with the phenol from (107b) and 4-chloromethyl-2,6-dimethylpyridine, example 111 was prepared in an analogous series of reactions to (6b) and (1f). MS found: $(M+H)^+$ = 490.

Example 112

[1(R)]-N-hydroxy-3-methyl-α-[2-(methylsulfonyl)ethyl]-2-oxo-3-[4-(4-quinolinylmethoxy)phenyl]-1pyrrolidineacetamide mono(trifluoroacetate)

Beginning with the phenol from (107b) and 4-chloromethylquinoline hydrochloride, example 112 was prepared in an analogous series of reactions to (6b) and (1f). MS found: $(M+H)^{+} = 512$.

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Example 113

<u>N-hydroxy-1-[3-methyl-2-oxo-3-[4-</u>

(phenylmethoxy)phenyl]-1pyrrolidinyl]cyclopropanecarboxamide

15 (113a) Following a procedure analogous to step (1d), the aldehyde from (1c) (400 mg, 1.28 mmol) was reacted with 1-aminocyclopropane-1-carboxylic acid methyl ester hydrochloride to give the lactam (280 mg, 58%). MS found: (M+H)* = 380. (113b) Following a procedure analogous to step (1f), the ester from (113a) (100 mg, 0.264 mmol) was reacted with hydroxylamine to give the hydroxamic acid (76 mg, 76%). MS found: (M-H)* = 379.

Example 114

25 [1(R)]-N-hydroxy-α-[(4-hydroxyphenyl)methyl]-3-methyl-2-oxo-3-[4-(phenylmethoxy)phenyl]-1pyrrolidineacetamide

Beginning with the aldehyde from (1c) and D-tyrosine methyl ester hydrochloride, example 114 was prepared in an analogous series of reactions to (1d) and (1f). MS found: $(M-H)^{-} = 395$.

Example 115

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy[phenyl]-N-hydroxy- α -(2-

hydroxyethyl)-3-methyl-2-oxo-1-pyrrolidineacetamide (115a) A mixture of D-homoserine (25.00 g, 210 mmol), 35-37% hydrochloric acid (200 mL) and water (200 mL) was heated to

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reflux for 3 h. Removal of solvent in vacuo provided the aminolactone hydrochloride (27.68 g, 96%). MS found: $(M+NH4)^{+} = 119$.

- (115b) Following a procedure analogous to step (1d), the

 aldehyde from (1c) (3.00 g, 9.60 mmol) was reacted with the
 aminolactone hydrochloride from (115a) (1.45 g, 1.1 eq) to

 give the lactam as mixture of two isomers. Silica gel
 chromatography (ethyl acetate-hexane, 20:80) provided the less
 polar isomer (1.51 g) and the more polar isomer (1.45 g). MS

 found: (M+NH4) = 383.
- found: $(M+NH4)^{+} = 383$.

 (115c) Following a procedure analogous to step (3a), the more polar lactam from (115b) (1.40 g, 3.83 mmol) was hydrogenolized to give the phenol (1.06 g, 100%). MS found: $(M+H)^{+} = 276$.
- 15 (115d) Following a procedure analogous to step (6b), the phenol from (115c) (1.03 g, 3.74 mmol) was reacted with 4-bromomethyl-2,6-dichloropyridine to give the picolyl ether (1.36 g, 84%). MS found: (M+H)⁺ = 435.
- from (115d) (71.0 mg, 0.163 mmol) was reacted with hydroxylamine to give the hydroxamic acid (59.1 mg, 77%) as a 85:15 mixture due to partial epimerization. MS found: (M-H) = 466.

(115e) Following a procedure analogous to step (1f), the ester

25 **Example 116**

[1(R)]-1,1-dimethylethyl [5-[3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-3-methyl-2-oxo-1-pyrrolidinyl]-6-(hydroxyamino)-6-oxohexyl]carbamate

(116a) Following a procedure analogous to step (1d), the
aldehyde from (1c) (5.05 g, 16.2 mmol) was reacted with H-DLys(BOC)-OMe hydrochloride (5.28 g, 1.1 eq) to give the crude
lactam as mixture of two isomers. The BOC protecting group
came off during the cyclization.

(116b) The crude material from (116a) in methylene chloride

(100 mL) and DMF (10 mL) was treated with Hunig's base (12.0 mL, 2 eq) and di-t-butyl dicarbonate (8.33 g, 1.2 eq) for 1 h at rt. Following addition of sat ammonium chloride (50 mL) and ethyl acetate (800 mL), the mixture was washed with water

(2x50 mL), brine (50 mL), dried (MgSO4) and concentrated. Silica gel chromatography (ethyl acetate-hexane, 40:60 then 50:50) gave the BOC protected lactams (5.49 g, 65% for 2 steps) as a 1:1 mixture. MS found: $(M+Na)^+ = 547$.

- 5 (116c) Following a procedure analogous to step (3a), the lactam from (116b) (5.40 g, 10.3 mmol) was hydrogenolized. Silica gel chromatography (isopropanol-chloroform, 3:97 then 5:95) gave more polar phenol (1.29 g), a 1:1 mixture of both isomers (1.46 g), as well as the less polar isomer. MS found:

 10 (M+Na) + = 457.
 - (116d) Following a procedure analogous to step (6b), the more polar phenol from (116c) (300 mg, 0.690 mmol) was reacted with 4-bromomethyl-2,6-dichloropyridine to give the picolyl ether (360 mg, 88%). MS found: $(M+Na)^+$ = 616.
- 15 (116e) Following a procedure analogous to step (1f), the ester from (116d) (152 mg, 0.256 mmol) was reacted with hydroxylamine to give the hydroxamic acid (71.0 mg, 47%). MS found: (M-H) = 593.

20 **Example 117**

$[1(R)]-\alpha-(4-aminobuty1)-3-[4-[(2,6-dichloro-4-pyridiny1)methoxy]phenyl]-N-hydroxy-3-methy1-2-oxo-1-pyrrolidineacetamide mono(trifluoroacetate)$

The hydroxamic acid example 116 (39 mg, 0.065 mmol) was stirred with trifluoroacetic acid (0.5 mL) and CH_2Cl_2 (2 mL) for 1 h at rt and concentrated to give example 117 (40 mg, 100%). MS found: $(M+H)^+ = 495$.

Example 118

30 [1(R)]-α-[4-(acetylamino)butyl]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N-hydroxy-3-methyl-2-oxo-1-pyrrolidineacetamide

(118a) The picolyl ether from (116d) (351 mg, 0.590 mmol) was stirred with trifluoroacetic acid (2 mL) and CH_2Cl_2 (8 mL) for 2 h at rt and concentrated to give the free amine trifluoroacetate in quantitative yield. MS found: $(M+H)^+ = 494$.

(118b) Beginning with the amine from (118a) and acetyl chloride, example 118 was prepared in an analogous series of reactions to (49a) and (1f). MS found: $(M-H)^{-} = 535$.

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Example 119

[1(R)]-N-[5-[3-[4-[(2,6-dichloro-4-

pyridinyl)methoxylphenyl]-3-methyl-2-oxo-1pyrrolidinyl]-6-(hydroxyamino)-6-oxohexyl]-3pyridineacetamide

Beginning with the amine from (118a) and nicotinoyl chloride, example 119 was prepared in an analogous series of reactions to (49a) and (1f). MS found: $(M+H)^{+} = 600$.

Example 120

[1(R)]-N-[5-[3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-3-methyl-2-oxo-1-pyrrolidinyl]-6-(hydroxyamino)-6-oxohexyl]-4-morpholinecarboxamide

Beginning with the amine from (118a) and 4-morpholinecarbonyl chloride, example 120 was prepared in an analogous series of reactions to (49a) and (1f). MS found: $(M+Na)^+ = 630$.

Example 121

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy]phenyl]-N-hydroxy-3-methyl-\alpha-[4-[(methylsulfonyl)amino]butyl]-2-oxo-1pyrrolidineacetamide

Beginning_with the amine from (118a) and methanesulfonyl chloride, example 121 was prepared in an analogous series of reactions to (49a) and (1f). MS found: $(M+Na)^+ = 595$.

Example 122

$[1(R)]-\alpha-[4-(acetylamino)butyl]-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N-hydroxy-3-methyl-2-oxo-1-pyrrolidineacetamide$

(122a) Following a procedure analogous to step (6b), the more polar phenol from (116c) (1.00 g, 2.30 mmol) was reacted with

4-bromomethyl-2,6-dimethylpyridine to give the picolyl ether (1.00 g, 79%). MS found: $(M+H)^+ = 554$.

(122b) Following a procedure analogous to step (118a), the picolyl ether from (122a) (1.00 g, 1.81 mmol) was deprotected with trifluoroacetic acid to give the amine trifluoroacetate (1.28, 100%). MS found: $(M+H)^+ = 454$.

(122c) Beginning with the amine from (122b) and acetyl chloride, example 122 was prepared in an analogous series of reactions to (49a) and (1f). MS found: $(M+H)^{+} = 497$.

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Example 123

[1(R)]-1,1-dimethylethyl [5-[3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-3-methyl-2-oxo-1-pyrrolidinyl]-6-(hydroxyamino)-6-oxohexyl]carbamate

Beginning with the picolyl ether from (122a), example 123 was prepared in an analogous series of reactions to (55d) and (55e). MS found: $(M+H)^{+} = 555$.

Example 124

Starting with the hydroxamic acid from example 123, example 124 was prepared in a procedure analogous to example 117. MS found: $(M+H)^+ = 455$.

Example 125

[1(R)]-\alpha-[4-[(aminoacetyl)amino]butyl]-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N-hydroxy-3-methyl-2-oxo-1-pyrrolidineacetamide bis(trifluoroacetate)

Beginning with the amine from (122b) and N-(t-butoxycarbonyl)glycine, example 125 was prepared in an analogous series of reactions to (50a), (1e) and example 51. MS found: $(M+H)^{+} = 512$.

Example 126

$\frac{[1(R)]-\alpha-[4-(acetylamino)butyl]-3-[4-[[3,5-bis(trifluoromethyl)phenyl]methoxy]phenyl]-N-hydroxy-}{3-methyl-2-oxo-1-pyrrolidineacetamide}$

Beginning with the more polar phenol from (116c) and 3,5-bis(trifluoromethyl)benzyl bromide, example 126 was prepared in an analogous series of reactions to (6b), (118a), (49a) and (1f). MS found: (M+Na)⁺ = 626.

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Example 127

[1(R)]-1,1-dimethylethyl [5-[3-[4-(3,5-dibromophenoxy)phenyl]-3-methyl-2-oxo-1-pyrrolidinyl]-6-(hydroxyamino)-6-oxohexyl]carbamate

Beginning with the more polar phenol from (116c) and 3,5dibromobenzeneboronic acid, example 127 was prepared in an analogous series of reactions to (61a) and (1f). MS found: (M-H) = 668.

Example 128

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$[1(R)]-\alpha-(4-aminobuty1)-3-[4-(3,5-$

dibromophenoxy)phenyl]-N-hydroxy-3-methyl-2-oxo-1pyrrolidineacetamide mono(trifluoroacetate)

Starting with the hydroxamic acid from example 127, example 128 was prepared in a procedure analogous to example 117. MS found: $(M+H)^{+} = 570$.

Example 129

[1(R)]-1,1-dimethylethyl [3-[3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-3-methyl-2-oxo-1-

30 pyrrolidinyl]-4-(hydroxyamino)-4-oxobutyl]carbamate
(129a) Iodobenzene diacetate (38.6 g, 1.2 eq) was added to a
mixture of Z-D-Gln-OH (28.1 g, 100 mmol), ethyl acetate (134
mL), acetonitrile (134 mL) and water (67 mL) at 5-10 °C.
After 30 min at 10 °C and 4 h at 16 °C, the organic solvent
was removed in vacuo. The aqueous residue was washed with
ethyl acetate (2x20 mL) and concentrated to small volume. The
product was precipitated out by addition of ethyl acetate (100
mL). Filtration and washing with ethyl acetate (50 mL)

provided the diamino acid (16.3 g, 64.5%). MS found: $(M+H)^{+}$ = 253.

(129b) Following a procedure analogous to (82a), the diamino acid from (129a) (5.40 g, 21.4 mmol) was cyclized with BOP reagent to give the lactam (2.33 g, 47%). MS found: $(M+Na)^{\frac{1}{2}} = 257$.

(129c) Following a procedure analogous to (3a), the lactam from (129b) (9.10 g, 38.8 mmol) was hydrogenolized to give the free aminolactam hydrochloride (5.33 g, 100%). MS found:

10 $(M+NH4)^+ = 118$.

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- (129d) Following a procedure analogous to (1d), the aldehyde from (1c) (2.39 g, 7.65 mmol) and the lactam from (129c) (1.3 eq) were converted to the lactam (2.29 g, 82%) as a 1:1 mixture of two isomers. MS found: $(M+Na)^+ = 387$.
- 15 (129e) Following a procedure analogous to (3a), the lactam from (129d) (2.23 g, 6.12 mmol) was hydrogenolized to give the phenol (1.60 g, 95%). MS found: (M+H)⁺ = 275.

 (129f) Following a procedure analogous to (6b), the phenol from (129e) (1.51 g, 5.50 mmol) was coupled with 4-
- bromomethyl-2,6-dichloropyridine to give the picolyl ether
 (1.03 g, 43%). MS found: (M+Na)⁺ = 456.
 (129g) Triethylamine (0.32 mL, 1 eq), (BOC)2O (1.00 g, 2 eq)
 and DMAP (0.281 g, 1 eq) were added to the lactam from (129f)
 (1.00 g, 2.30 mmol) in dichloromethane (10 mL) and the mixture
 was stirred at rt overnight. The solvent was removed and the
 mixture purified by silica gel chromatography (ethyl acetate-
- $(M+Na)^{+} = 556$. 30 <u>(129h)</u> Following a procedure analogous to (1f), the more polar lactam from (129g) (102 mg, 0.191 mmol) was converted to the

hydroxamic acid (50.0 mg, 50%). MS found: $(M-H)^{-} = 565$.

Example 130

hexane, 40:60 then 50:50 then 60:40) to provide the less polar isomer (380 mg) and the more polar isomer (310 mg). MS found:

35 [1(R)]-α-(2-aminoethyl)-3-[4-[(2,6-dichloro-4pyridinyl)methoxy]phenyl]-N-hydroxy-3-methyl-2-oxo-1pyrrolidineacetamide mono(trifluoroacetate)

Starting with the hydroxamic acid from example 129, example 130 was prepared in a procedure analogous to example 117. MS found: $(M+H)^+ = 467$.

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Example 131

[1(R)]-α-[2-(acetylamino)ethyl]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N-hydroxy-3-methyl-2-oxo-1-pyrrolidineacetamide

(131a) Chlorotrimethylsilane (0.20 mL, 10 eq) was added to the 10 more polar lactam from (129g) (90.0 mg, 0.168 mmol) in methanol at rt. After 12 h at reflux, additional chlorotrimethylsilane (10 eq) was added and the mixture kept at reflux to another 24 h. Concentration and purification by 15 silica gel chromatography (methanol-dichloromethane, 5:95 then 10:90) provided the aminoester (70 mg, 89%). MS found: $(M+H)^{+} = 466.$ (131b) Following a procedure analogous to (49a), the aminoester from (131a) (64 mg, 0.137 mmol) was converted to the acetamide (70 mg, 100%). MS found: $(M+Na)^{+} = 630$. 20 (131c) Following a procedure analogous to (1f), the acetamide from (131b) (65 mg, 0.128 mmol) was converted to the

hydroxamic acid (15 mg, 23%). MS found: $(M-H)^{-} = 508$.

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Example 132

[1(R)]-1,1-dimethylethyl [3-[3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-3-methyl-2-oxo-1-pyrrolidinyl]-4-(hydroxyamino)-4-oxobutyl]carbamate mono(trifluoroacetate)

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(132a) Following a procedure analogous to (129g), the lactam mixture from (129d) (6.36 g, 17.4 mmol) was converted to the BOC protected lactam. Silica gel chromatography (ethyl acetate-hexane, 40:60 then 50:50 then 60:40) provided the less polar isomer (3.70 g) and the more polar isomer (3.19 g). The total yield is 85%. MS found: $(M+Na)^+ = 487$. (132b) Following a procedure analogous to example 117, the more polar isomer from (132a) (3.13 g, 8.59 mmol) was

deprotected to give the lactam (1.70 g, 69%). MS found: $(M+H)^+ = 365$.

(132c) Following a procedure analogous to (3a), the lactam from (132b) (1.68 g, 4.61 mmol) was hydrogenolized to give the phenol (1.23 g, 97%). MS found: $(M+H)^+=275$. (132d) Following a procedure analogous to (6b), the phenol from (132c) (1.20 g, 4.37 mmol) was coupled with 4-bromomethyl-2,6-dimethylpyridine to give the picolyl ether

10 (132e) Following a procedure analogous to (131a), the lactam from (132d) (1.58 g, 4.02 mmol) was converted to the methyl ester bis(hydrochloride) (2.00 g, 100%). MS found: (M+H)⁺ = 426.

(1.63 g, 95%). MS found: $(M+H)^{\dagger} = 394$.

(132f) Following a procedure analogous to (49a), the aminoester from (132e) (100 mg, 0.183 mmol) was reacted with (BOC)20 to give the t-butyl carbamate (70 mg, 60%). MS found: $(M+H)^+$ = 526.

(132g) Following a procedure analogous to (1f), the ester from (132f) (65 mg, 0.124 mmol) was converted to the hydroxamic acid (23.5 mg, 30%). MS found: $(M+H)^+ = 527$.

Example 133

[1(R)]-\alpha-(2-aminoethyl)-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N-hydroxy-3-methyl-2-oxo-1-pyrrolidineacetamide bis(trifluoroacetate)

Starting with the hydroxamic acid from example 132, example 133 was prepared in a procedure analogous to example 117. MS found: $(M+H)^+ = 427$.

30 **Example 134**

N-[3-[3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]3-methyl-2-oxo-1-pyrrolidinyl]-4-(hydroxyamino)-4oxobutyl]-3-pyridinecarboxamide

Beginning with the amine from (132e) and nicotinoyl chloride, example 134 was prepared in an analogous series of reactions to (49a) and (1f). MS found: $(M+H)^{+} = 523$.

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Example 135

[1(R)]-N-[3-[3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-3-methyl-2-oxo-1-pyrrolidinyl]-4-(hydroxyamino)-4-oxobutyl]-4-morpholinecarboxamide_mono(trifluoroacetate)

Beginning with the amine from (132e) and 4-morpholinecarbonyl chloride, example 120 was prepared in an analogous series of reactions to (49a) and (1f). MS found: $(M+H)^{+} = 540$.

Example 136

[1(R)]-1,1-dimethylethyl [2-[[3-[3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-3-methyl-2-oxo-1-pyrrolidinyl]-4-(hydroxyamino)-4-oxobutyl]amino]-2-oxoethyl]carbamate mono(trifluoroacetate)

Beginning with the amine from (132e) and N-(t-butoxycarbonyl)glycine, example 136 was prepared in an analogous series of reactions to (50a) and (1e). MS found: $(M+H)^{+} = 584$.

20 **Example 137**

[1(R)]-\alpha-[2-[(aminoacetyl)amino]ethyl]-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N-hydroxy-3methyl-2-oxo-1-pyrrolidineacetamide bis(trifluoroacetate)

25 Starting with the hydroxamic acid from example 136, example 137 was prepared in a procedure analogous to example 117. MS found: (M+H)⁺ = 484.

Example 138

[1(R)]-1,1-dimethylethyl [2-[[2-[[3-[3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-3-methyl-2-oxo-1-pyrrolidinyl]-4-(hydroxyamino)-4-oxobutyl]amino]-2-oxoethyl]amino]-2-oxoethyl]carbamate mono(trifluoroacetate)

Beginning with the amine from (132e) and BOC-Gly-Gly-OH, example 138 was prepared in an analogous series of reactions to (50a) and (1e). MS found: $(M+H)^+ = 641$.

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Example 139

[1(R)]-\alpha-[2-[[[(aminoacetyl)amino]acetyl]amino]ethyl]3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-Nhydroxy-3-methyl-2-oxo-1-pyrrolidineacetamide bis(trifluoroacetate)

Starting with the hydroxamic acid from example 138, example 139 was prepared in a procedure analogous to example 117. MS found: $(M+H)^{+} = 541$.

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Example 140

$[1(R)]-N-hydroxy-3-methyl-2-oxo-\alpha-$

[(phenylmethoxy)methyl]-3-[4-(phenylmethoxy)phenyl]-1pyrrolidineacetamide

Beginning with the aldehyde from (1c) and (D)-Ser(OBn)-OMe, example 140 was prepared in an analogous series of reactions to (1d) and (1e). MS found: (M-H) = 473.

Example 141

[1(R)]-3-[4-[(2,6-dichloro-4-

20 <u>pyridinyl)methoxy]phenyl]-N-hydroxy-α-(hydroxymethyl)-</u> 3-methyl-2-oxo-1-pyrrolidineacetamide

Beginning with the aldehyde from (1c) and (D)-Ser(OBn)-OMe, example 141 was prepared in an analogous series of reactions to (1d), (3a), (6b) and (1e). MS found: $(M-H)^{-} = 437$.

Example 142

[1(R)]-1,1-dimethylethyl 4-[2-(hydroxyamino)-1-[3-methyl-2-oxo-3-[4-(4-quinolinylmethoxy)phenyl]-1-pyrrolidinyl]-2-oxoethyl]-1-piperidinecarboxylate mono(trifluoroacetate)

(142a) To 2-(R)-azido-2-(N-t-BOC-4-piperidinyl)acetic acid (50.0 g, 213 mmol, Ciba-Geigy, EP606046 1994) in methanol (125 mL) and benzene (500 mL) was added a 2 M hexane solution of trimethylsilyl diazomethane (110 mL, 1.03 eq). After 10 min at rt, the mixture was concentrated. Silica gel chromatography (ethyl acetate-hexane, 10:90 then 20:80) gave the methyl ester (36.8 g, 58%). MS found: (M+H) = 299.

(142b) A mixture of the azido ester from (142a) (36.8 g, 123 mmol), 10% Pd on carbon (8.0 g) in water (600 mL), THF (600 mL) and acetic acid (200 mL) was stirred under balloon pressure hydrogen at rt overnight. The catalyst was removed by filtration and the filtrate was concentrated to give the amino ester (29.5 g, 88%). MS found: $(M+H)^{+} = 273$. (142c) Following a procedure analogous to step (1d), the aldehyde from (1c) (2.00 g, 6.40 mmol) was reacted with the amino ester from (142b) (2.09 g, 1 eq) to give the crude 10 lactam as mixture of two isomers. The BOC protecting group came off during the cyclization. MS found: $(M+H)^{+} = 437$. (142d) Following a procedure analogous to step (116b), the crude material from (142c) was reacted with (BOC)20 to provide the carbamate (2.13 g, 62%) as a 1:1 mixture. MS found: $(M+Na)^{+} = 559.$ 15 (142e) Following a procedure analogous to step (3a), the lactam from (142d) (2.13 g, 3.97 mmol) was hydrogenolized to give the phenol (1.72 g, 97%). MS found: $(M-H)^{-} = 445$. (142f) Following a procedure analogous to step (6b), the phenol from (142e) (700 mg, 1.57 mmol) was reacted with 4-20 chloromethylquinoline hydrochloride to give the ether (744 mg, 81%). MS found: $(M+H)^{+} = 588$. (142g) Following a procedure analogous to step (92d), the ester from (142f) (160 mg, 0.272 mmol) was reacted with

hydroxylamine. The product was purified by reverse phase HPLC on a Dynamax C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the fast moving isomer (61.5 mg) and the slow moving isomer (53.0 mg). MS found: (M+H)⁺ = 589.

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Example 143

[1(R)]-N-hydroxy-α-[3-methyl-2-oxo-3-[4-(4-quinolinylmethoxy)phenyl]-1-pyrrolidinyl]-4-piperidineacetamide mono(trifluoroacetate)

Starting with the slow moving isomer from example 142, example 143 was prepared in a procedure analogous to example 117. MS found: (M+H)⁺ = 489.

Example 144

quinolinylmethoxy)phenyl]-1-pyrrolidinyl]-1-(methylsulfonyl)-4-piperidineacetamide mono(trifluoroacetate)

(144a) Following a procedure analogous to example 117, the lactam from (142f) (553 mg, 0.941 mmol) was reacted with TFA to give the piperidine mono(trifluoroacetate) (1.04, 100%). MS found: $(M+H)^{+} = 488$.

(144b) Following a procedure analogous to (49a), the 10 piperidine from (144a) (200 mg, 0.278 mmol) was reacted with MsCl to give the sulfonamide (112 mg, 71%). MS found: (M+H)* = 566.

(144c) Following a procedure analogous to step (92d), the 15 ester from (144b) (112 mg, 0.198 mmol) was reacted with hydroxylamine. The product was purified by reverse phase HPLC on a Dynamax C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the fast moving isomer (14.0 mg) and the slow moving isomer (13.5 mg). MS found: $(M+H)^{+} = 567$.

Example 145

$[1(R)]-1-(2-furanylcarbonyl)-N-hydroxy-\alpha-[3-methyl-2$ oxo-3-[4-(4-quinolinylmethoxy)phenyl]-1-pyrrolidinyl]-4-piperidineacetamide mono(trifluoroacetate)

Beginning with the piperidine from (144a) and 2-furic acid, example 145 was prepared in an analogous series of reactions to (50a) and (92d). MS found: $(M+H)^{\dagger} = 583$.

30 Example 146

[1(R)]-1,1-dimethylethyl 4-[1-[3-[4-[(2,6-dimethyl-4pyridinyl)methoxy|phenyl]-3-methyl-2-oxo-1pyrrolidinyl]-2-(hydroxyamino)-2-oxoethyl]-1piperidinecarboxylate mono(trifluoroacetate)

(146a) Following a procedure analogous to step (6b), the 35 phenol from (142e) (1.07 g, 2.40 mmol) was reacted with 4chloromethyl-2,6-dimethylpyridine hydrochloride to give the picolyl ether (1.15 g, 85%). MS found: $(M+Na)^{+} = 588$.

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(146b) Following a procedure analogous to step (92d), the ester from (146a) (124 mg, 0.219 mmol) was reacted with hydroxylamine. The product was purified by reverse phase HPLC on a Dynamax C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the fast moving isomer (40.0 mg) and the slow moving isomer (30.0 mg). MS found: $(M+H)^+ = 567$.

Example 147

pyridinyl)methoxy[phenyl]-3-methyl-2-oxo-1pyrrolidinyl]-N-hydroxy-4-piperidineacetamide bis(trifluoroacetate)

Starting with the slow moving isomer from example 146, 15 example 147 was prepared in a procedure analogous to example 117. MS found: $(M+H)^+ = 467$.

Example 148

[1(R)]-methyl 4-[1-[3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-3-methyl-2-oxo-1-pyrrolidinyl]-2-(hydroxyamino)-2-oxoethyl]-1-piperidinecarboxylate mono(trifluoroacetate)

(148a) Following a procedure analogous to example 117, the 1:1 mixture of lactams from (146a) (1.01 g, 1.79 mmol) was reacted with TFA to give the piperidine mono(trifluoroacetate) (1.22 g, 100%). MS found: $(M+H)^+ = 466$.

(148b) Following a procedure analogous to (49a), the piperidine from (148a) (75.4 mg, 0.109 mmol) was reacted with methyl chloroformate to give the crude carbamate. MS found: $(M+H)^+ = 524$.

(148c) Following a procedure analogous to step (92d), the crude ester from (148b) was reacted with hydroxylamine. The diastereomeric mixture was purified by reverse phase HPLC on a Dynamax C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the slow moving isomer (14.1 mg). MS found:

 $(M+H)^{+} = 525.$

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Example 149

$[1(R)]-\alpha-[3-[4-[(2,6-dimethyl-4-$

pyridinyl)methoxy]phenyl]-3-methyl-2-oxo-1pyrrolidinyl]-N-hydroxy-1-(methylsulfonyl)-4piperidineacetamide mono(trifluoroacetate)

Beginning with the piperidine from (148a) and mathanesulfonyl chloride, example 149 was prepared in an analogous series of reactions to (49a) and (92d). MS found: $(M+H)^{+} = 545$.

Example 150

[1(R)]-1-acetyl-\alpha-[3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-3-methyl-2-oxo-1-pyrrolidinyl]-N-hydroxy-4-piperidineacetamide mono(trifluoroacetate)

Beginning with the piperidine from (148a) and acetyl chloride, example 150 was prepared in an analogous series of reactions to (49a) and (92d). MS found: $(M+H)^+ = 509$.

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Example 151

[1(R)]-1-(2,2-dimethyl-1-oxopropyl)-α-[3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-3-methyl-2-oxo-1-pyrrolidinyl]-N-hydroxy-4-piperidineacetamide mono(trifluoroacetate)

Beginning with the piperidine from (148a) and trimethylacetyl chloride, example 151 was prepared in an analogous series of reactions to (49a) and (92d). MS found: $(M+H)^{+} = 551$.

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Example 152

$[1(R)] - \alpha - [3 - [4 - [(2, 6 - dimethy] - 4 -$

Beginning with the piperidine from (148a) and formaldehyde, example 152 was prepared in an analogous series of reactions to (86a) and (92d). MS found: $(M+H)^+ = 481$.

Example 153

$[1(R)]-\alpha-[3-[4-[(2,6-dimethyl-4-$

pyridinyl)methoxy]phenyl]-3-methyl-2-oxo-1pyrrolidinyl]-N-hydroxy-1-(1-methylethyl)-4piperidineacetamide bis(trifluoroacetate)

Beginning with the piperidine from (148a), sodium cyanoborohydride and acetone, example 153 was prepared in an analogous series of reactions to (86a) and (92d). MS found: $(M+H)^{+} = 510$.

Example 300

[1(R)]-3-amino-N-hydroxy-alpha-(2-methylpropyl)-2-oxo-3-[4-(2-quinolinylmethoxy)phenyl]-1-

pyrrolidineacetamide mono(trifluoroacetate

(300a) The p-hydroxy phenyl glycine (74.0 g, 442 mmol) was suspended in methanol (500 mL), cooled in an ice bath and HCl (gas) was bubbled through the reaction mixture for 20 minutes, to give a clear solution. The reaction was stirred at rt for 48 h, concentrated in vacuo to give an oil which was triturated with ethyl ether to give the p-hydroxy phenyl glycine methyl ester (95.8 g, 99%) as a white powder. MS found: (M+H) = 182.

- 25 (300b) The Di-t-butyl dicarbonate (105.0 g, 484 mmol) dissolved in DMF (100 mL) was added slowly to an ice cooled solution of p-hydroxy phenyl glycine methyl ester (95.8 g, 440 mmol), triethyl amine (101 mL) and DMF (800 mL). The reaction was allowed to warm to rt, stirred for 5 h,
- partitioned between ethyl acetate and 1N HCl. The organic layer was washed with brine, dried over magnesium sulfate and was concentrated in vacuo to give the N-Boc product (123.0 g, 100%) an amber oil. MS (M-H) = 280.
- (300c) The N-Boc p-hydroxy phenyl glycine methyl ester from step (300a) (123.0 g, 440 mmol) was combined with benzyl bromide (90.3 g, 528 mmol), potassium carbonate (182 g, 1.3 mol) and acetone (800 mL) under a nitrogen atmosphere. The reaction was heated to reflux for 5 h, allowed to cool to rt,

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diluted with ethyl acetate (800 mL) filtered to remove the solids and concentrated in vacuo to give a semisolid residue. The product was crystallized from ethyl ether to give the N-Boc p-benzyloxy phenyl glycine methyl ester (106.7 g, 65%) as a white powder. MS $(M+H)^{+} = 372$, $(M+NH4)^{+} = 389$. 5 (300d) The LDA (148.1 mL, 296.2 mmol) was added slowly to a solution of the N-Boc p-benzyloxy phenyl glycine methyl ester from step (300c) (55.0 g, 148.1 mmol) in THF (500 mL) cooled to -78 °C under a nitrogen atmosphere. The reaction was 10 allowed to stir for 1 h and the allyl bromide (17.9 g, 148.1 mmol) was added. The reaction was allowed to warm to 0 °C and stir for 1.5 h. The reaction was partitioned between ethyl acetate and 1 N HCl. The organic layer was washed with brine dried over magnesium sulfate and concentrated in vacuo to give an oil. The product was purified by flash chromatography on 15 silica gel (hexane:ethyl acetate, 85:15, v:v) to give olefin (50,1 g, 82%). MS $(M+Na)^{+} = 434$. (300e) Following a procedure analogous to that used in step (1c), the olefin from (300d) (5.0 g, 11.37 mmol) was oxidized 20 to the aldehyde. The product was purified by flash chromatography on silica gel (hexane:ethyl acetate, 70:30, v:v) to give the desired aldehyde (4.6 g, 98%). MS $(M+Na)^{\dagger}$ = 436. (300f) The aldehyde from (300e) (4.0 g, 9.67 mmol) was combined with leucine methyl ester hydrochloride (2.1 g, 11.6 25 mmol) and DIEA (1.49 g, 11.6 mmol) in 1,2 1,2-dichloroethane (50 mL) at rt and stirred for 1 h. To this solution the sodium triacetoxyborohydride (3.1 g, 14.5 mmol) was added. The reaction was stirred for 2 h, diluted with methylene chloride washed with brine, dried over magnesium sulfate and 30 concentrated in vacuo, to give the amine (5.2 g, 100%) as a $MS (M+H)^{+} = 543.$ clear oil. (300g) The amine from (300f) (5.2 g, 9.67 mmol) was dissolved in toluene (100 mL) under a nitrogen atmosphere and was heated to 90 °C for 4 h. The reaction was allowed to cool to rt, 35 concentrated in vacuo to give a crude oil which was purified

by flash chromatography on silica gel (hexane: ethyl acetate,

85:15, v:v) to give the desired lactam as two separated diastereomers (4.8 g, 97%) as a glass. . MS $(M+H)^{+}$ = 511. (300h) The lactam from (300g) (2.6 g, 3.9 mmol) was dissolved in methanol (50 mL), degassed with nitrogen, 10% Pd/C was added and the reaction was charged to 50 PSI hydrogen. The reaction was shaken for 3 h, filtered through celite to remove the catalyst, concentrated in vacuo to give the phenol product (1.6 g, 100%) as a white foam. MS $(M+H)^{+}$ = 421, MS $(M+Na)^{+}$ = 443.

- 10 (300i) The phenol product from (300h) (0.15 g, 0.35 mmol) was combined with 2(chloromethyl)quinoline (0.15 g, 0.71 mmol), cesium carbonate (3 eq) and sodium iodide in acetone (15 mL), then heated to reflux. The reaction was heated for 3 h, cooled, diluted with ethyl acetate, filtered to remove the solids and concentrated in vacuo to give a crude oil. The product was purified by flash chromatography on silica gel (methylene chloride:ethyl acetate, 80:20, v:v) to give the desired lactam product (0.15 g, 76%) as a white foam. MS (M+H)⁺ = 562 (M-NH2)⁺ = 445.
- 20 (300j) The N-Boc lactam from (300i) (0.14 g, 0.25 mmol) was dissolved in methylene chloride (2 mL) and TFA (2 mL) under a nitrogen atmosphere. The reaction was stirred for 2 h, concentrated in vacuo to give the expected amino lactam (0.14 g, 100%) as an oil. MS (M+H) = 462, (M-NH2) = 445.
- 25 (300k) Following a procedure analogous to that used in step (1f), the methyl ester amino lactam product from (300j) (0.14 g, 0.30 mmol) was converted to the crude hydroxamic acid which was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the 30 hydroxamic acid product (0.085 g, 49%) as a white amorphous solid. MS (M+H)⁺ = 463, (M-NH2)⁺ = 446.

Example 301

[1(R)]-3-amino-3-[4-[(3,5-

dimethylphenyl)methoxylphenyl]-N-hydroxy-alpha-methyl2-oxo-1-pyrrolidineacetamide mono(trifluoroacetate)

(301a) Following the procedures analogous to that used for the preparation of example (300), but using alanine methyl ester

in step (300f) and 3,5-dimethyl benzyl bromide in step (300i), the crude hydroxamic acid was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.021 g, 42%) as a white amorphous solid. MS $(M+H)^+ = 398$, $(M-NH2)^+ = 381$.

Example 302

[1(R)]-3-[4-[(3,5-dimethylphenyl)methoxy]phenyl]-3[[(ethylamino]carbonyl]amino]-N-hydroxy-alpha-methyl2-oxo-1-pyrrolidineacetamide

(302a) Following the procedures analogous to that used for the preparation of example (300), but using alanine methyl ester in step (300f) and 3,5-dimethyl benzyl bromide in step (300i), the amino lactam methyl ester from step (j) was prepared and purified by crystallization from ethyl ether (0.28 g, 40%). MS $(M+Na)^+ = 419$, $(M-NH2)^+ = 380$. (302b) The ethyl isocyanate (0.0035 g, 0.05 mmol) was added to a solution of amino lactam methyl ester (302a) (0.025 g, 0.05

mmol), methylene chloride (1 mL) and N-methyl morpholine (2 eq) at rt under a nitrogen atmosphere. After stirring for 1 h the reaction was concentrated in vacuo to give the ethyl urea (0.023 g, 98%) as a viscous oil. MS $(M+H)^+$ = 468.

(302c) Following a procedure analogous to that used in step (1f), the ethyl urea lactam methyl ester product from (302b) (0.023 g, 0.049 mmol) was converted to the crude hydroxamic acid which was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the title compound (0.015 g, 64%) as a white amorphous solid. MS $(M+Na)^+ = 491$.

Example 303

[1(R)]-3-[4-[(3,5-dimethylphenyl)methoxy]phenyl]-N-hydroxy-alpha-methyl-3-[(methylsulfonyl)amino]-2-oxo1-pyrrolidineacetamide

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(303a) Following the procedures analogous to that used for the preparation of example (302), but using methane sulfonyl chloride in step (302b) the crude hydroxamic acid was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the title compound (0.010 g, 35%) as a white amorphous solid. $MS (M+Na)^+ = 498$.

Example 304

10 [1(R)]-N-[3-[4-[(3,5-dimethylphenyl)methoxy]phenyl]1-[2-(hydroxyamino)-1-methyl-2-oxoethyl]-2-oxo-3 pyrrolidinyl]-3-pyridineacetamide mono(trifluoroacetate)

(304a) The amino lactam methyl ester (302a) (0.05 g, 0.098 15 mmol) was combined with 3-pyridinyl acetic acid (0.026 g, 0.15 mmol), HATU (0.057 g, 0.15 mmol), NMM (3 eq), and DMF (1 mL) at rt under nitrogen atmosphere. The reaction was stirred for 18 h, partitioned between ethyl acetate and 1 N HCl. The organic layer was washed with brine, dried over MgSO4, and 20 concentrated in vacuo to give the amide product as a crude oil. MS $(M+H)^{\dagger} = 515$, MS $(M+Na)^{\dagger} = 538$. (304b) Following a procedure analogous to that used in step (1f), the pyridinyl acetamide lactam methyl ester from step (304a)(0.05 g, 0.098 mmol) was converted to the crude 25 hydroxamic acid which was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the title compound (0.025 g, 49%) as a white

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Example 305

amorphous solid. $MS (M+H)^{+} = 517$.

[1(R)]-N-[3-[4-[(3,5-dimethylphenyl)methoxy]phenyl] 1-[2-(hydroxyamino)-1-methyl-2-oxoethyl]-2-oxo-3 pyrrolidinyl]-4-pyridinecarboxamide mono(trifluoroacetate)

35 (305a) Following the procedures analogous to that used for the preparation of example (302), but using isonicotinoyl chloride in step (302b) the crude hydroxamic acid was prepared. The product was purified by reverse phase HPLC on a Vydac C-18

semiprep column eluting an acetonitrile:water:TFA gradient, to give the title compound (0.035 g, 71%) as a white amorphous solid. MS $(M+H)^{+} = 503$.

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Example 306

[1(R)]-3-amino-3-[4-[(2,6-dichloro-4pyridinyl)methoxy] phenyl]-N-hydroxy-alpha-methyl-2oxo-1-pyrrolidineacetamide bis(trifluoroacetate)

(306a) Following the procedures analogous to that used for the preparation of example (300), but using alanine methyl ester in step (300f) and 3,5-dichloro-4-picolyl chloride hydrochloride in step (300i), the crude hydroxamic acid was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the title compound (0.045 g, 33%) as a white amorphous solid. MS (M-H) = 437, 439.

Example 307

[1(R)]-N-[3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy[phenyl]-1-[2-(hydroxyamino)-1methyl-2-oxoethyl]-2-oxo-3-pyrrolidinyl]-4pyridinecarboxamide bis(trifluoroacetate)

(307a) Following the procedures analogous to that used for the preparation of example (300), but using alanine methyl ester in step (300f) and 3,5-dichloro-4-picolyl chloride hydrochloride in step (300i), the amino lactam methyl ester from step (j) was reacted with isonicotinoyl chloride similar to example (305a), to prepare the title compound. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.02 g, 20%) as a white amorphous solid. MS $(M+H)^+$ =544. 546.

Example 308

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxylphenyl]-3-

[[(ethylamino)carbonyl]amino]-N-hydroxy-alpha-methyl-2-oxo-1-pyrrolidineacetamide mono(trifluoroacetate)

(308a) Following the procedures analogous to that used for the preparation of example (300), but using alanine methyl ester in step (300f) and 3,5-dichloro-4-picolyl chloride hydrochloride in step (300i), the amino lactam methyl ester from step (j) was reacted with ethyl isocyanate similar to example (302b), to prepare the title compound. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.04 g, 25%) as a white amorphous solid. MS (M+Na)⁺ =532, 534.

Example 309

[1(R)]-1,1-dimethylethyl [2-[[3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-1-[2-(hydroxyamino)-1-methyl-2-oxoethyl]-2-oxo-3-pyrrolidinyl]amino]-2-oxoethyl]carbamate mono(trifluoroacetate)

(309a) Following the procedures analogous to that used for the preparation of example (300), but using alanine methyl ester in step (300f) and 3,5-dichloro-4-picolyl chloride

20 hydrochloride in step (300i), the amino lactam methyl ester from step (j) was reacted with N-Boc glycine acid similar to example (304a), to prepare the title compound. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.02 g, 25%) as a white amorphous solid. MS (M+Na) + = 618,620.

Example 310

[1(R)]-3-[(aminoacetyl)amino]-3-[4-[(2,6-dichloro-4pyridinyl)methoxy]phenyl]-N-hydroxy-alpha-methyl-2oxo-1-pyrrolidineacetamide bis(trifluoroacetate) (310a) The N-Boc glycine compound example (309) was dissolved in methylene chloride (0.5 mL) and TFA (0.5 mL) at rt under a nitrogen atmosphere. The reaction was stirred for 1 h, concentrated in vacuo to give a residue which was triturated

with ethyl ether to give the title compound (0.01 g 82%) as a white solid. MS $(M+H)^+ = 496,498$.

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Example 311

[1(R)]-N-[3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy[phenyl]-1-[2-(hydroxyamino)-1methyl-2-oxoethyl]-2-oxo-3-pyrrolidinyl]-3-

pyridineacetamide bis(trifluoroacetate)

(311a) Following the procedures analogous to that used for the preparation of example (300), but using alanine methyl ester in step (300f) and 3,5-dichloro-4-picolyl chloride hydrochloride in step (300i), the amino lactam methyl ester from step (j) was reacted with 3-pyridinyl acetic acid similar to example (304a), to prepare the title compound. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.045 g, 23%) as a white amorphous solid. MS $(M+H)^+ = 558, 560$.

Example 312

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy]phenyl]-N-hydroxy-alpha-methyl-2oxo-3 [[[(phenylmethyl)amino]carbonyl]amino]-1pyrrolidineacetamide

(312a) Following the procedures analogous to that used for the preparation of example (300), but using alanine methyl ester in step (300f) and 3,5-dichloro-4-picolyl chloride hydrochloride in step (300i), the amino lactam methyl ester from step (j) was reacted with benzyl isocyanate similar to example (302b), to prepare the title compound. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.05 g, 33%) as a white amorphous solid. MS $(M+Na)^+$ =594, 596.

Example 313

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy]phenyl]-3-[[[(2,4dimethoxyphenyl)amino]carbonyl]amino]-N-hydroxy-alpha-

methyl-2-oxo-1-pyrrolidineacetamide

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(313a) Following the procedures analogous to that used for the preparation of example (300), but using alanine methyl ester in step (300f) and 3,5-dichloro-4-picolyl chloride hydrochloride in step (300i), the amino lactam methyl ester from step (j) was reacted with 2,4-dimethoxy phenylisocyanate similar to example (302b), to prepare the title compound. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.035 g, 27%) as a white amorphous solid. MS (M+Na) + =640,642.

Example 314

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy]phenyl]-N-hydroxy-alpha-methyl-2oxo-3-[[(phenylamino)carbonyl]amino]-1pyrrolidineacetamide

(314a) Following the procedures analogous to that used for the preparation of example (300), but using alanine methyl ester in step (300f) and 3,5-dichloro-4-picolyl chloride hydrochloride in step (300i), the amino lactam methyl ester from step (j) was reacted with phenylisocyanate similar to example (302b), to prepare the title compound. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.016 g, 13%) as a white amorphous solid. MS (M+Na) + =580,582.

Example 315

[1(R)]-1,1-dimethylethyl [3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-1-[2-(hydroxyamino)-1-methyl-2-oxoethyl]-2-oxo-3-pyrrolidinyl]carbamate

(315a) Following the procedures analogous to that used for the preparation of example (300), but using alanine methyl ester in step (300f) and 3,5-dichloro-4-picolyl chloride hydrochloride in step (300i), the N-Boc lactam methyl ester from step (i) was reacted with hydroxylamine hydrochloride similar to example (1f), to prepare the title compound. The product was purified by reverse phase HPLC on a Vydac C-18

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semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.04 g, 42%) as a white amorphous solid. MS $(M+Na)^+$ =561, 563.

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Example 316

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy|phenyl]-N-hydroxy-alpha-methyl-3-[[[[2-(4-morpholinyl)ethyl]amino]carbonyl]amino]-2oxo-1-pyrrolidineacetamide

- 10 (316a) Following the procedures analogous to that used for the preparation of example (300), but using alanine methyl ester in step (300f) and 3,5-dichloro-4-picolyl chloride hydrochloride in step (300i), the amino lactam methyl ester from step (j) (0.10 g, 0.18 mmol) was dissolved in methylene 15 chloride (3 mL) and saturated sodium bicarbonate solution (1 mL), cooled to 0°C, phosgene in toluene solution was added and the reaction was stirred vigorously for 15 minutes. reaction was diluted with methylene chloride washed with brine, dried over magnesium sulfate and concentrated to give 20 an oil. The oil was taken up in methylene chloride (2 mL) and the amino ethyl morpholine (0.047 g, 0.36 mmol) was added. The reaction was stirred for 0.5 h at rt and was concentrated to give the urea (0.09 g, 84%) as a crude product. MS (M+H) $^{+}$ =594, 596.
- 25 (316b) The urea lactam methyl ester from step (316a) was reacted with hydroxylamine hydrochloride similar to example (1f), to prepare the title compound. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic 30 acid product (0.03 g, 28%) as a white amorphous solid. MS (M+H)⁺ =595, 597.

Example 317

[1(R)]-1,1-dimethylethyl N-[[[3-[4-[(2,6-dichloro-435 pyridinyl)methoxylphenyl]-1-[2-(hydroxyamino)-1methyl-2-oxoethyl]-2-oxo-3pyrrolidinyl]amino]carbonyl]glycine

(317a) Following the procedures analogous to that used for the preparation of example (300), but using alanine methyl ester in step (300f) and 3,5-dichloro-4-picolyl chloride hydrochloride in step (300i), the amino lactam methyl ester from step (j) was reacted with t-butyl glycine ester similar to steps (316a and 316b), to prepare the title compound. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.04 g, 37%) as a white amorphous solid. MS (M+Na) + =618, 620.

Example 318

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy]phenyl]-N-hydroxy-alpha-methyl-2oxo-3-[[(2-thiazolylamino)carbonyl]amino]-1pyrrolidineacetamide

(318a) Following the procedures analogous to that used for the preparation of example (300), but using alanine methyl ester in step (300f) and 3,5-dichloro-4-picolyl chloride

20 hydrochloride in step (300i), the amino lactam methyl ester from step (j) was reacted 2-amino thiazole similar to steps (316a and 316b), to prepare the title compound. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.045 g, 44%) as a white amorphous solid. MS (M+H) + =565, 567.

Example 319

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy]phenyl]-N-hydroxy-alpha-methyl-2oxo-3-[[(4-pyridinylamino)carbonyl]amino]-1pyrrolidineacetamide mono(trifluoroacetate)

(319a) Following the procedures analogous to that used for the preparation of example (300), but using alanine methyl ester in step (300f) and 3,5-dichloro-4-picolyl chloride hydrochloride in step (300i), the amino lactam methyl ester from step (j) was reacted with 4-amino pyridine similar to steps (316a and 316b), to prepare the title compound. The

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product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.035 g, 32%) as a white amorphous solid. MS $(M+Na)^+$ =581, 583.

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Example 320

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy]phenyl]-N-hydroxy-3-[[[(3hydroxyphenyl)amino]carbonyl]amino]-alpha-methyl-2oxo-1-pyrrolidineacetamide

(320a) Following the procedures analogous to that used for the preparation of example (300), but using alanine methyl ester in step (300f) and 3,5-dichloro-4-picolyl chloride hydrochloride in step (300i), the amino lactam methyl ester from step (j) was reacted 3-hydroxy aniline similar to steps (316a and 316b), to prepare the title compound. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.011 g, 14%) as a white amorphous solid. MS (M+Na) + =596,598.

Example 321

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy|phenyl]-3-[[[(2,3-dihydro-2-oxo-1H-

benzimidazol-5-yl)amino|carbonyl|amino|-N-hydroxyalpha-methyl-2-oxo-1-pyrrolidineacetamide

(321a) Following the procedures analogous to that used for the preparation of example (300), but using alanine methyl ester in step (300f) and 3,5-dichloro-4-picolyl chloride

- hydrochloride in step (300i), the amino lactam methyl ester from step (j) was reacted with 5-amino-1,3-dihydro-2H-benzimiazol-2-one similar to steps (316a and 316b), to prepare the title compound. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an
- acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.02 g, 22%) as a white amorphous solid. MS (M+Na)⁺ =636, 638.

Example 322

[1(R)]-3-amino-3-[4-[(2,6-dichloro-4pyridinyl)methoxy]phenyl]-N-hydroxy-alpha-[2(methylsulfonyl)ethyl]-2-oxo-1-pyrrolidineacetamide mono(trifluoroacetate)

(322a) Following the procedures analogous to that used for the preparation of example (300), but using methionine methyl ester in step (300f), the sulphide from step (g) was oxidized (2.6 g, 5.10 mmol) by Oxone (12.55 g, 20.5 mmol) in methanol water solution, at rt. The methanol was removed in vacuo and the aqueous layer was extracted with methylene chloride (2X). The combined organic layer was washed with brine, dried over magnesium sulfate and concentrated in vacuo to give the sulfone (2.6 g, 91%) as a white foam. MS (M+Na)* = 583.

15 (322b) Following the procedures analogous to that used for the preparation of example (300) steps (h through k), but using the sulfide compound from step (322a) and 3,5-dichloro-4-picolyl chloride hydrochloride in step (300i), the title

picolyl chloride hydrochloride in step (300i), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.03 g, 30%) as a white amorphous solid. MS (M+H)⁺ =532, 533.

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Example 323

[1(R)]-3-amino-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N-hydroxy-alpha-[2-(methylsulfonyl)ethyl]-2-oxo-1-pyrrolidine acetamide mono(trifluoroacetate)

30 (323a) Following the procedures analogous to that used for the preparation of example (300), but using methionine methyl ester in step (300f), oxidation methods similar to example (322a) and 3,5-dimethyl-4-picolyl chloride hydrochloride in step (300i), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.035 g, 35%) as a white amorphous solid. MS (M+H)⁺ =491.

Example 324

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy]phenyl]-N-hydroxy-alpha-[2(methylsulfonyl)ethyl]-2-oxo-3-[[(2-

thiazolylamino)carbonyl]amino]-1-pyrrolidineacetamide (324a) Following the procedures analogous to that used for the preparation of example (300), but using methionine methyl ester in step (300f), oxidation methods similar to example (322a) and 3,5-dichloro-4-picolyl chloride hydrochloride in step (300i), the amino lactam methyl ester from step (j) was reacted 2-amino thiazole similar to example (316a), to prepare the title compound. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.054 g, 20%) as a white amorphous solid. MS (M+H)⁺ =657, 659.

Example 325

[1(R)]-3-[4-[(2,6-dimethyl-4-

thiazolylamino)carbonyl]amino]-1-pyrrolidineacetamide mono(trifluoroacetate)

25 (325a) Following the procedures analogous to that used for the preparation of example (300), but using methionine methyl ester in step (300f), oxidation methods similar to example (322a) and 3,5-dimethyl-4-picolyl chloride hydrochloride in step (300i), the amino lactam methyl ester from step (j) was reacted 2-amino thiazole similar to example (316a), to prepare the title compound. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.055 g, 40%) as a white amorphous solid. MS (M+H)⁺ 35 =617.

Example 326

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[5(R)]-2-propenyl [5-[3-amino-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-2-oxo-1-pyrrolidinyl]-6 (hydroxyamino)-6-oxohexyl]carbamate mono(trifluoroacetate)

5 (326a) Following the procedures analogous to that used for the preparation of example (300), but using g-N-Alloc lysine

methyl ester in step (300f) and 3,5-dichloro-4-picolyl chloride hydrochloride in step (300i), the title compound was prepared. The product was purified by reverse phase HPLC on a 10 Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.012 g, 18%) as a white amorphous solid. MS (M+H) = 580, 582.

Example 327

15 [5(R)]-2-propenyl [5-[3-amino-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-2-oxo-1-pyrrolidinyl]-6 (hydroxyamino)-6-oxohexyl]carbamate bis(trifluoroacetate)

(327a) Following the procedures analogous to that used for the preparation of example (300), but using g-N-Alloc lysine methyl ester in step (300f) and 3,5-dimethyl-4-picolyl chloride hydrochloride in step (300i), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.025 g, 25%) as a white amorphous solid. MS (M+Na) = 562.

Example 328

[1(R)]-3-amino-3-[4-[(2,6-dichloro-4pyridinyl)methoxy]phenyl]-N-hydroxy-alpha-(2methylpropyl)-2-oxo-1-pyrrolidineacetamide mono(trifluoroacetate)

(328a) Following the procedures analogous to that used for the preparation of example (300), but using 3,5-dichloro-4-picolyl chloride hydrochloride in step (300i), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA

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gradient, to give the hydroxamic acid product (0.03 g, 35%) as a white amorphous solid. MS $(M+H)^+ = 481,483$.

Example 329

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy]phenyl]-N-hydroxy-alpha-(2methylpropyl)-2-oxo-3-[[(2-

thiazolylamino)carbonyl]amino]-1-pyrrolidineacetamide

(329a) Following the procedures analogous to that used for the preparation of example (300), but using 3,5-dichloro-4-picolyl chloride hydrochloride in step (300i), the amino lactam methyl ester from step (j) was reacted 2-amino thiazole similar to step (316a), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.01 g, 25%) as a white amorphous solid. MS $(M+Na)^+$ =629,631.

Example 330

20 [1(R)]-3-[4-[(2,6-dimethyl-4-

pyridinyl)methoxy[phenyl]-N-hydroxy-alpha-(2methylpropyl)-2-oxo-3-[[(2-

thiazolylamino)carbonyl]amino]-1-pyrrolidineacetamide mono(trifluoroacetate)

25 (330a) Following the procedures analogous to that used for the preparation of example (300), but using 3,5-dimethyl-4-picolyl chloride hydrochloride in step (300i), the amino lactam methyl ester from step (j) was reacted 2-amino thiazole similar to step (316a), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient to give the hydroxamic acid product (0.01 g, 20%) as a white amorphous solid. MS (M+H) = 567.

Example 331

[1(R)]-3-[4-[(2,6-dichloro-4pyridinyl)methoxy]phenyl]-N-hydroxy-alpha-(2methylpropyl)-2-oxo-3-[[(2-

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(331a) Following the procedures analogous to that used for the preparation of example (300), but using 3,5-dichloro-4-picolyl chloride hydrochloride in step (300i), the amino lactam methyl ester from step (j) was reacted with 2-amino pyridine similar to step (316a), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.02 g, 20%) as a white amorphous solid. MS (M+Na) + =623,625.

Example 332

[1(R)]-3-[4-[(2,6-dimethyl-4-

pyridinyl)methoxy]phenyl]-N-hydroxy-alpha-(2methylpropyl)-2-oxo-3-[(trifluoroacetyl)amino]-1pyrrolidineacetamide mono(trifluoroacetate)

(332a) Following the procedures analogous to that used for the preparation of example (300), but using 3,5-dimethyl-4-picolyl chloride hydrochloride in step (300i), the amino lactam methyl ester from step (j) was reacted with trifluoroacetic anhydride similar to step (302b), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.051 g, 25%) as a white amorphous solid. MS $(M+H)^+$ =537.

Example 333

pyridinyl)methoxylphenyl]-N-hydroxy-alpha-(2methylpropyl)-2-oxo-3-[[(2-

(333a) Following the procedures analogous to that used for the preparation of example (300), but using 3,5-dimethyl-4-picolyl chloride hydrochloride in step (300i), the amino lactam methyl

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ester from step (j) was reacted with 2-amino pyridine similar to step (316a), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.03 g, 25%) as a white amorphous solid. MS $(M+H)^{\dagger}$ =561.

Example 334

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy]phenyl]-N-hydroxy-alpha-(2methylpropyl)-2-oxo-3-

[[[(phenylsulfonyl)amino]carbonyl]amino]-1pyrrolidineacetamide

(334a) Following the procedures analogous to that used for the preparation of example (300), but using 3,5-dichloro-4-picolyl chloride hydrochloride in step (300i), the amino lactam methyl ester from step (j) was reacted with benzenesulfonyl isocyanate similar to step (302b), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.025 g, 20%) as a white amorphous solid. MS (M+Na)⁺ =686,688.

Example 335

[1(R)]-3-[4-[(2,6-dimethyl-4-

pyridinyl)methoxylphenyll-N-hydroxy-alpha-(2-methylpropyl)-2-oxo-3-

[[[(phenylsulfonyl)amino]carbonyl]amino]-1pyrrolidineacetamide mono(trifluoroacetate)

30 (335a) Following the procedures analogous to that used for the preparation of example (300), but using 3,5-dimethyl-4-picolyl chloride hydrochloride in step (300i), the amino lactam methyl ester from step (j) was reacted with benzenesulfonyl isocyanate similar to step (302b), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.035 g, 30%) as a white amorphous solid. MS (M+H) =624.

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Example 336

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy]phenyl]-N-hydroxy-3-[[[(3-methyl-5isothiazolyl)amino]carbonyl]amino]-alpha-(2methylpropyl) -2-oxo-1-pyrrolidineacetamide

(336a) Following the procedures analogous to that used for the preparation of example (300), but using 3,5-dichloro-4-picolyl chloride hydrochloride in step (300i), the amino lactam methyl ester from step (j) was reacted with 5-amino-3-methyl isothiazole similar to step (316a), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.01 g, 20%) as a white amorphous solid. MS $(M+H)^{\dagger} = 621,623$.

Example 337

[1(R)]-3-[[(1H-benzimidazol-2-ylamino)carbonyl]amino]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-Nhydroxy-alpha-(2-methylpropyl)-2-oxo-1pyrrolidineacetamide

(337a) Following the procedures analogous to that used for the preparation of example (300), but using 3,5-dichloro-4-picolyl chloride hydrochloride in step (300i), the amino lactam methyl ester from step (j) was reacted with 2-amino benzimidazole similar to step (316a), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile: water: TFA gradient, to give the hydroxamic acid product (0.005 g, 5%) as a white amorphous solid. MS $(M+H)^+ = 640$, 642.

Example 338

[1(R)]-3-[[(1H-benzimidazol-2-ylamino)carbonyl]amino]-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-Nhydroxy-alpha-(2-methylpropyl)-2-oxo-1pyrrolidineacetamide mono(trifluoroacetate)

(338a) Following the procedures analogous to that used for the preparation of example (300), but using 3,5-dimethyl-4-picolyl

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chloride hydrochloride in step (300i), the amino lactam methyl ester from step (j) was reacted with 2-amino benzimidazole similar to step (316a), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.015 g, 25%) as a white amorphous solid. MS $(M+H)^+$ =600.

Example 339

[1(R)]-3-[4-[(2,6-dimethyl-4-

pyridinyl)methoxylphenyl]-N-hydroxy-alpha-(2methylpropyl)-2-oxo-3-[[(phenylamino)carbonyl]amino] 1-pyrrolidineacetamide mono(trifluoroacetate)

(339a) Following the procedures analogous to that used for the preparation of example (300), but using 3,5-dimethyl-4-picolyl chloride hydrochloride in step (300i), the amino lactam methyl ester from step (j) was reacted with benzene isocyanate similar to step (302b), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.02 g, 20%) as a white amorphous solid. MS $(M+H)^+$ =560.

Example 340

[1(R)]-3-[4-[(2,6-dichloro-4-

(340a) Following the procedures analogous to that used for the preparation of example (300), but using 3,5-dichloro-4-picolyl chloride hydrochloride in step (300i), the amino lactam methyl ester from step (j) was reacted with benzene isocyanate similar to step (302b), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.015 g, 20%) as a white amorphous solid. MS $(M+Na)^+$ =622,624.

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Example 341

[1(R)]-1-[1-[(hydroxyamino)carbonyl]-3-methylbutyl]-N,N,N-trimethyl-2-oxo-3-[4-(phenylmethoxy)phenyl]-1pyrrolidinemethanaminium trifluoroacetate

5 (341a) Following the procedures analogous to that used for the preparation of example (300), but using benzyl bromide in step (300i), the amino lactam methyl ester from step (j) was reacted with methyl iodide and triethylamine in DMSO at rt. The reaction was partitioned between ethyl acetate and saturated sodium bicarbonate. The organic layer was washed 10 with brine, dried over magnesium sulfate and concentrated in vacuo to give an oil. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the trimethyl amino 15 lactam product (0.025 g, 61%) as an oil. MS $(M+H)^{+} = 453$. (341b) Following the procedures analogous to that used for the preparation of step (1f) the title compound was prepared. product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to 20 give the hydroxamic acid product (0.01 g, 50%) as a white amorphous solid. MS (M+H) = 454.

Example 342

[1(R)]-3-amino-N-hydroxy-alpha-(2-methylpropyl)-2-oxo-3-[4-(4-quinolinylmethoxy)phenyl]-1-

<u>pyrrolidineacetamide mono(trifluoroacetate)</u>
(342a) Following the procedures analogous to that used for the preparation of example (300), but using 4-chloromethyl quinoline hydrochloride in step (300i), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.075 g, 52%) as a white amorphous solid. MS (M+H)⁺ =463, MS (M-NH2)⁺ = 446.

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Example 343

[1(R)]-3-amino-N-hydroxy-alpha-(2-methylpropyl)-2-oxo-3-[4-(2-oxo-2-phenylethoxy)phenyl]-1pyrrolidineacetamide mono(trifluoroacetate)

(343a) Following the procedures analogous to that used for the preparation of example (300), but using 2-bromoacetophenone in step (300i), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.075~g,~52%) as a white amorphous solid. MS $(M+H)^+$ =455.

Example 344

[1(R)]-3-amino-3-[4-[(3,5-dimethyl-4isoxazolyl)methoxy]phenyl]-N-hydroxy-alpha-(2methylpropyl)-2-oxo-1-pyrrolidineacetamide mono(trifluoroacetate)

(344a) Following the procedures analogous to that used for the preparation of example (300), but using 4-(chloromethyl)-3,5-dimethyl-isoxazole in step (300i), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.075 g, 53%) as a white amorphous solid. MS $(M+H)^+$ =431, MS $(M-NH2)^+$ = 414.

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Example 345

[1(R)]-3-amino-3-[4-[(2,6-dimethyl-4pyridinyl)methoxy]phenyl]-N-hydroxy-alpha-(2methylpropyl)-2-oxo-1-pyrrolidineacetamide bis[trifluoroacetate]

(345a) Following the procedures analogous to that used for the preparation of example (300), but using 3,5-dimethyl-4-picolyl chloride hydrochloride in step (300i), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.160 g, 55%) as a white amorphous solid. MS (M+H)⁺ =441.

Example 346

[1(R)]-3-amino-3-[4-[2-(2-benzothiazolylamino)-2oxoethoxy]phenyl]-N-hydroxy-alpha-(2-methylpropyl)-2oxo-1-pyrrolidineacetamide mono(trifluoroacetate)

(346a) Following the procedures analogous to that used for the preparation of example (300), but using 2-chloro-N(2-benzthiazole) acetamide in step (300i), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.08 g, 56%) as a white amorphous solid. MS (M+H)⁺ =512, MS (M-NH2)⁺ =495.

Example 347

[1(R)]-3-amino-N-hydroxy-3-[4-[(2-methoxy-4-quinolinyl)methoxy]phenyl]-alpha-(2-methylpropyl)-2-oxo-1-pyrrolidineacetamide mono(trifluoroacetate)

(360a) Following the procedures analogous to that used for the preparation of example (300), but using 2-methoxy-4-bromomethyl quinoline in step (300i) the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.12 g, 34%) as a white amorphous solid. MS $(M+H)^+$ =493, MS $(M-NH2)^+$ = 476.

Example 348

[1(R)]-3-amino-N-hydroxy-alpha-(2-methylpropyl)-2-oxo-3-[4-[(2-phenyl-4-quinolinyl)methoxy]phenyl]-1pyrrolidineacetamide mono(trifluoroacetate)

(362a) Following the procedures analogous to that used for the preparation of example (300), but using 2-phenyl-4-chloromethyl quinoline hydrochloride in step (300i) the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.12 g, 34%) as a white amorphous solid. MS (M+H)⁺=539.

Example 349

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[1(R)]-3-amino-3-[4-[(2,6-dimethyl-4quinolinyl)methoxy]phenyl]-N-hydroxy-alpha-(2methylpropyl)-2-oxo-1-pyrrolidineacetamide mono(trifluoroacetate)

5 (363a) Following the procedures analogous to that used for the preparation of example (300), but using 2,6-dimethyl-4-chloromethyl quinoline hydrochloride in step (300i) the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.12 g, 34%) as a white amorphous solid. MS (M+H)⁺=491.

Example 350

[1(R)]-3-amino-3-[4-[(2-chloro-4-guinolinyl)methoxy]phenyl]-N-hydroxy-alpha-(2-methylpropyl)-2-oxo-1-pyrrolidineacetamide mono (trifluoroacetate)

(350a) Following the procedures analogous to that used for the preparation of example (300), but using 2-chloro-4(chloromethyl)quinoline hydrochloride in step (300i), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.03 g, 20%) as a white amorphous solid. MS (M+H)⁺ =497,499.

Example 351

[1(R)]-3-amino-3-[4-[2-(2,5-dimethoxyphenyl)-2-(hydroxyimino)ethoxy]phenyl]-N-hydroxy-alpha-(2-methylpropyl)-2-oxo-1-pyrrolidineacetamide mono(trifluoroacetate)

(351a) Following the procedures analogous to that used for the preparation of example (300), but using 2-bromo-2',5'-dimethoxy acetophenone in step (300i), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA

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gradient, to give the hydroxamic acid product (0.0 g, %) as a white amorphous solid. MS $(M+H)^+$ =515.

Example 352

[1(R)]-3-amino-N-hydroxy-3-[4-[(2-methylimidazo[1,2-a]pyridin-3-yl)methoxy]phenyl]-alpha-(2-methylpropyl)-2-oxo-1-pyrrolidineacetamide mono(trifluoroacetate)

(352a) Following the procedures analogous to that used for the preparation of example (300), the phenol from step (300h) (0.15 g, 0.35 mmol) was combined with 3-hydroxylmethyl-2-methyl-imidazoylpyridine (0.086 g, 0.53 mmol), DEAD, triphenylphosphine and benzene at rt. The reaction was stirred for 2 h, partitioned between ethyl acetate and water, the organic layer was washed with brine dried over magnesium sulfate and concentrated in vacuo to give an oil. The product was purified by flash chromatography on silica gel eluting ethyl acetate to give the alkylated product (0.088 g, 44%) as an oil. MS $(M+H)^+$ =565.

(352b) Following the procedures analogous to that used for the preparation of example (300) and step (1f) the compound from step (352a) was reacted to prepare the title compound. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.065 g, 72%) as a white amorphous solid. MS $(M+H)^+$ =466.

Example 353

[1(R)]-3-amino-3-[4-[[1,4-dimethyl-2-(methylthio)-1Himidazol-5-yl]methoxy]phenyl]-N-hydroxy-alpha-(2methylpropyl)-2-oxo-1-pyrrolidineacetamide mono(trifluoroacetate)

(353a) Following the procedures analogous to that used for the preparation of example (300), the phenol from step (h) was treated with 2-thiomethyl-3N-5-dimethyl-4-hydroxymethyl imidazole similar to step (352a), to prepare the title compound. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA

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gradient, to give the hydroxamic acid product (0.09 g, 44%) as a white amorphous solid. MS $(M+H)^+=476$.

Example 354

[1(R)]-3-amino-3-[4-[[1,5-dimethyl-2-(methylthio)-1Himidazol-4-yl]methoxy]phenyl]-N-hydroxy-alpha-(2methylpropyl)-2-oxo-1-pyrrolidineacetamide mono(trifluoroacetate)

(354a) Following the procedures analogous to that used for the preparation of example (300), the phenol from step (h) was treated with 2-thiomethyl-3N-methyl-4-methyl-5-hydroxymethyl imidazole similar to step (352a), to prepare the title compound. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.04 g, 45%) as a white amorphous solid. MS (M+H)⁺ =476.

Example 355

[1(R)]-3-amino-3-[4-[(2,4-dimethyl-5-

thiazolyl)methoxylphenyll-alpha-(2-methylpropyl)-2oxo-1-pyrrolidineacetamide mono(trifluoroacetate)

(355a) Following the procedures analogous to that used for the preparation of example (300), the phenol from step (h) was treated with 2,4-dimethyl-5-hydroxymethyl thiazole similar to step (352a), to prepare the title compound. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.150 g, 75%) as a white amorphous solid. MS $(M+H)^+$ =447.

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Example 356

[1(R)]-3-amino-N-hydroxy-alpha-(2-methylpropyl)-3-[4-[(2-methyl-4-quinolinyl)methoxy]phenyl]-2-oxo-1pyrrolidineacetamide bis(trifluoroacetate)

35 (356a) Following the procedures analogous to that used for the preparation of example (300), but using 2-methyl-4-chloromethyl quinoline hydrochloride similar to step (300i), the title compound was prepared. The product was purified by

reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.055 g, 70%) as a white amorphous solid. MS $(M+H)^{+}$ =477.

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Example 357

[1(R)]-3-amino-3-[4-[(2-chloro-4-

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(357a) Following the procedures analogous to that used for the preparation of example (300), but using methionine methyl ester in step (300f), oxidation methods similar to example (322a), and 2-chloro-4-chloromethyl quinoline hydrochloride in step (300i), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.12 g, 34%) as a white amorphous solid. MS $(M+H)^+$ =547,549, MS $(M-NH2)^+$ 530,532.

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Example 358

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(358a) Following the procedures analogous to that used for the preparation of example (300), but using methionine methyl ester in step (300f), oxidation methods similar to step (322a) and 2-methyl-4-chloromethyl quinoline hydrochloride in step (300i), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.12 g, 34%) as a white amorphous solid. MS $(M+H)^+$ =527.

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Example 359

[1(R)]-3-amino-3-[4-[(3,5-

dimethoxyphenyl)methoxy]phenyl]-N-hydroxy-alpha-[2-

(359a) Following the procedures analogous to that used for the preparation of example (300), but using methionine methyl ester in step (300f), oxidation methods similar to step (322a),3,5-dimethoxy benzyl bromide in step (300i) and the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.12 g, 34%) as a white amorphous solid. MS $(M+H)^+$ =522, MS $(M-NH2)^+$ 505.

Example 360

(361a) Following the procedures analogous to that used for the preparation of example (300), but using methionine methyl ester in step (300f), 2-methoxy-4-bromomethyl quinoline in step (300i) and oxidation similar to prep (322a) the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.12 g, 34%) as a white amorphous solid. MS $(M+H)^{+}$ =543, MS $(M-NH2)^{+}$ = 526.

Example 361

[1(R)]-3-amino-3-[4-[(3,5-

30 <u>dimethoxyphenyl)methoxy]phenyl]-N-hydroxy-alpha-(2-methylpropyl)-2-oxo-1-pyrrolidineacetamide</u> <u>mono(trifluoroacetate)</u>

(361a) Following the procedures analogous to that used for the preparation of example (300), but using 3,5-dimethoxy benzyl bromide in step (300i), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA

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gradient, to give the hydroxamic acid product (0.12 g, 34%) as a white amorphous solid. MS $(M-NH2)^+ = 455$.

Example 362

[1(R)]-3-amino-3-[4-[(2-methoxy-5-nitro-phenyl)methoxy]phenyl]-N-hydroxy-alpha-(2-methylpropyl)-2-oxo-1-pyrrolidineacetamide mono(trifluoroacetate)

10 (362a) Following the procedures analogous to that used for the preparation of example (300), but using 2-methoxy-5-nitro benzylbromide in step (300i), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.065 g, 25%) as a white amorphous solid. MS (M-NH2) + 470.

Example 363

[1(R)]-3-amino-3-[4-[(5-quinoliny1)methoxy]phenyl]-Nhydroxy-alpha-(2-methylpropyl)-2-oxo-1pyrrolidineacetamide mono(trifluoroacetate)

(363a) Following the procedures analogous to that used for the preparation of example (300), but using 5-chloromethyl quinoline in step (300i), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.055 g, 50%) as a white amorphous solid. MS $(M-NH2)^+ = 446$.

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Example 364

[1(R)]-3-amino-N-hydroxy-3-[4-[(2-methoxy-5-nitro-phenyl)methoxy]phenyl]-alpha-[2-(methylsulfonyl)ethyl]-2-oxo-1-pyrrolidineacetamide mono(trifluoroacetate)

(364a) Following the procedures analogous to that used for the preparation of example (300), but using methionine methyl

ester in step (300f), 2-methoxy-5-nitro-benzylbromide in step (300i) and oxidation similiar to step (322a) the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.17 g, 60%) as a white amorphous solid. MS $(M+H)^{+}$ =543, MS $(M-NH2)^{+}$ = 520.

Example 365

10 [1(R)]-3-amino-N-hydroxy-3-[4-[(2-nitro-4,5-dimethoxy-phenyl)methoxylphenyl]-alpha-[2 (methylsulfonyl)ethyl]-2-oxo-1-pyrrolidineacetamide mono(trifluoroacetate)

15 (365a) Following the procedures analogous to that used for the preparation of example (300), but using methionine methyl ester in step (300f), 2-nitro-4,5-dimethoxy benzylbromide in step (300i) and oxidation similiar to step (322a) the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.075 g, 42%) as a white amorphous solid. MS (M+H)⁺ =567, MS (M-NH2)⁺ = 550.

Example 366

[1(R)]-3-amino-N-hydroxy-3-[4-[(2-phenyl-4-quinolinyl)methoxy]phenyl]-alpha-[2-(methylsulfonyl)ethyl]-2-oxo-1-pyrrolidineacetamide mono(trifluoroacetate)

(366a) Following the procedures analogous to that used for the preparation of example (300), but using methionine methyl ester in step (300f), 2-phenyl-4-bromomethyl quinoline in step (300i) and oxidation similiar to step (322a) the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid

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product (0.07 g, 25%) as a white amorphous solid. MS $(M+H)^{+}$ =589.

Example 367

[1(R)]-3-amino-N-hydroxy-3-[4-[(3,5-dimethyl-4-isoxazolyl)methoxy]phenyl]-alpha-[2-

10 (367a) Following the procedures analogous to that used for the preparation of example (300), but using methionine methyl ester in step (300f), 4-(chloromethyl)3,5-dimethyl-isoxazole in step (300i) and oxidation similiar to step (322a) the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.12 g, 55%) as a white amorphous solid. MS (M+H)⁺ =481, MS (M-NH2)⁺ = 464.

20 Example 368

[1(R)]-3-amino-3-[4-[(phenyl)methoxy]phenyl]-N-hydroxy-alpha-[(4-hydroxyphenyl)methyl]-2-oxo-1-pyrrolidineacetamide mono(trifluoroacetate)

25 (368a) Following the procedures analogous to that used for the preparation of example (300), but using tyrosine methyl ester in step (300f), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.10 g, 50%) as a white amorphous solid. MS (M+H)⁺ =462, MS (M-NH2)⁺ = 445.

Example 369

[1(R)]-3-amino-3-[4-[(2-methyl-4-

35 <u>quinolinyl)methoxy]phenyl]-N-hydroxy-alpha-[(4-methoxyphenyl)methyl]-2-oxo-1-pyrrolidineacetamidemono(trifluoroacetate)</u>

(369a) Following the procedures analogous to that used for the preparation of example (300), but using O-methyl tyrosine methyl ester in step (300f) and 2-methyl-4-bromomethyl quinoline in step (300i) the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.075 g, 53%) as a white amorphous solid. MS $(M+H)^+$ =541, MS $(M-NH2)^+$ = 524.

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Example 370

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(370a) Following the procedures analogous to that used for the preparation of example (300), but using O-methyl tyrosine methyl ester in step (300f) and 2,6-dimethyl-4-bromomethyl pyridine in step (300i) the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.095 g, 77%) as a white amorphous solid. MS $(M+H)^+$ =505, MS $(M-NH2)^+$ = 488.

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Example 371

[1(R)]-3-amino-3-[4-[(phenyl)methoxy]phenyl]-N-hydroxy-alpha-[(4-methoxyphenyl)methyl]-2-oxo-1-pyrrolidineacetamide mono(trifluoroacetate)

30 (371a) Following the procedures analogous to that used for the preparation of example (300), but using O-methyl tyrosine methyl ester in step (300f) the title compound was prepared.

The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.051 g, 25%) as a white amorphous solid. MS (M+H)⁺ =476, MS (M-NH2)⁺ = 459.

Example 450

[1(R)]-3-(aminomethy1)-3-[4-[(2,6-dimethyl-4pyridinyl)methoxy]phenyl]-N-hydroxy-alpha-(2methylpropyl)-2-oxo-1-pyrrolidineacetamide bis(trifluoroacetate)

5 (450a) 4-Hydroxybenzyl cyanide (2.5 g, 18.77 mmol), benzyl bromide (3.8 g, 22.5 mmol) and potassium carbonate (45 mmol) were combined in acetone (50 mL) and heated to reflux for 8 h. The reaction was allowed to cool to rt, diluted with ethyl acetate and filtered to remove the solids. The organic layer was concentrated in vacuo to give an oil. The crude benzyl 10 ether was purified by chromatography on silica gel eluting hexane: ethyl acetate (90:10, v:v) to give 4-benzyloxybenzyl cyanide (4.0 g, 95%) which solidified. MS (M+NH4) = 241. (450b) The 4-benzyloxybenzyl cyanide from step (450a)(3.2 g, 14.33 mmol), sodium ethoxide (1.07 g, 15.7 mmol), and diethyl 15 carbonate (2.23 g, 18.9 mmol) were combined in toluene (100 mL), heated to reflux for 3 h, cooled to rt, and partitioned between ethyl acetate and 1 N HCl. The organic layer was washed with brine, dried over magnesium sulfate and concentrated in vacuo. The crude was purified by 20 chromatography on silica gel eluting hexane: ethyl acetate (80:20, v:v) to give ethyl 2-(4-benzyloxyphenyl)cyanoacetate (4.2 g, 99%) as an oil. MS $(M+NH4)^{+} = 313$. (450c) The ethyl 2-(4-benzyloxyphenyl)cyanoacetate from step 25 (450b) (3.7 g, 12.5 mmol) in DMF (20 mL) was added to a suspension of hexane washed sodium hydride (0.36 g, 15.0 mmol) in DMF (35 mL) cooled in an ice bath under nitrogen. reaction was allowed to stir for 1 h and the allyl bromide (2.9 g, 24.0 mmol) was added. The reaction was allowed to warm to rt and was stirred for 1 h. The reaction was 30 partitioned between ethyl acetate and 1 N HCl. The organic layer was washed with brine, dried over magnesium sulfate and concentrated to give an oil. The crude was purified by chromatography on silica gel eluting hexane: ethyl acetate 35 (90:10, v:v) to give ethyl 2-(4-benzyloxyphenyl)-2-allylcyanoacetate (4.0 g, 95%) as an oil. MS $(M+NH4)^{\dagger} = 353$. (450d) Lithium hydroxide hydrate (1.13 g, 26.8 mmol) in water (20 mL) was added to a solution of ethyl 2-(4-

benzyloxyphenyl)-2-allyl cyanoacetate from step (450c) (4.5 g, 13.42 mmol) in methanol (100 mL) at rt. The reaction was stirred for 5 h, partitioned between ethyl acetate and 1 N HCL. The organic layer was washed with brine, dried over magnesium sulfate and concentrated to give 2-(4-5 benzyloxyphenyl)-2-allyl cyanoacetic acid (4.1 g, 100%) as an oil. MS $(M+NH4)^{+} = 325$. (450e) The 2-(4-benzyloxyphenyl)-2-allyl cyanoacetic acid from step (450d) (2.34 g, 12.88 mmol), TBTU(5.17 g, 16.11 mmol), NMM (4 eq) and DMF (50 mL) were combined and stirred 10 for 15 minutes then the leucine methyl ester (2.34 g, 12.86 mmol) was added. The reaction was allowed to stir at rt for 18 h, partitioned between ethyl acetate and 1 N HCl. organic layer was washed with brine, dried over magnesium sulfate and concentrated to give an oil. The crude was 15 purified by chromatography on silica gel eluting hexane: ethyl acetate (80:20, v:v) to give the amide (1.9 g, 34%) as an oil. MS $(M+NH4)^{+} = 452$. (450f) Ozone was bubbled through a solution of the amide from step (450e) (1.9 g, 4.37 mmol) and methylene chloride (50 mL) 20 cooled to -78 °C. After 20 minutes the reaction turned blue, oxygen and then nitrogen were bubbled through the reaction solution. The triphenylphosphine (1.15 g, 4.37 mmol) was added and the reaction was allowed to warm to rt and stirred The reaction was concentrated in vacuo to give an 25 The crude product was purified by chromatography on silica gel eluting ethyl ether (100%) to give the aldehyde (1.9 g, 100%) as an oil. MS $(M+Na)^{+} = 459$. (450g) The aldehyde of step (450f) (1.9 g, 4.37 mmol) was dissolved in methylene chloride (15 mL), triethylsilane (5 30 mL), and TFA (2 mL) at rt under nitrogen. The reaction was stirred for 4 h and was concentrated in vacuo to give an oil. The crude product was purified by chromatography on silica gel eluting hexane: ethyl acetate (70:30, v:v) to give the cyano lactam (1.55 g, 68%) as an oil. MS $(M+NH4)^{+} = 438$. 35 (450h) The cyano lactam from step (450g) (1.55 g, 3.68 mmol) was dissolved in methanol (50 mL) degassed with nitrogen, then HCl (conc) (5 drops) and 10% Pd/C were added, the

reaction was charged to 50 PSI hydrogen and shaken for 18 h. The catalyst was removed over celite, the organic layer concentrated in vacuo to give the aminomethyl lactam (1.2 g, $MS (M+Na)^{+} = 335.$ 97%) as a foam.

(450i) The di-t-butyl dicarbonate (0.85 g, 3.88 mmol) was added to a solution of aminomethyl lactam from step (450h) (1.2 g, 3.24 mmol) and TEA (4 eg) in DMF (20 mL) at rt. The reaction was stirred for 4 h, partitioned between ethyl acetate and 1 N HCl. The organic layer was washed with brine, dried over magnesium sulfate and concentrated to give an oil. 10 The crude was purified by chromatography on silica gel eluting hexane: ethyl acetate (50:50, v:v) to give the N-Boc aminomethyl lactam (0.9 g, 64%) as a foam. MS $(M+Na)^{\dagger} = 457$. (450j) Following the procedures analogous to that used for the preparation of example (300), but using 3,5-dimethyl-4picolyl chloride hydrochloride in step (300i), the removal of the N-Boc protecting group similar to step (300j) the compound from step (450i) was converted to the aminomethyl lactam methyl ester (0.64 g, 100%) isolated as an oil. MS (M+H)

(450k) Following the procedures analogous to that used for the preparation of example (1f), the aminomethyl lactam methyl ester from step (450j) (0.10 g, 0.146 mmol) was converted to title compound. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.03 g, 30%) as a white amorphous solid. MS (M+H)⁺

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=454

=455.

Example 451

[1(R)]-3-[4-[(2,6-dimethy)1-4pyridinyl)methoxy]phenyl]-N-hydroxy-alpha-(2-

methylpropyl) - 2 - 0x0 - 3 - [[[(2-

thiazolylamino)carbonyl]amino]methyl]-1pyrrolidineacetamide mono(trifluoroacetate)

(451a) Following the procedures analogous to that used for the preparation of example (450), the aminomethyl lactam methyl ester from step (450j) was reacted with 2-isocyano

thiazole similar to step (302b), to prepare the title compound. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.075 g, 60%) as a white amorphous solid. MS $(M+H)^{+}$ =581.

Example 452

[1(R)]-3-(aminomethyl)-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N-hydroxy-alpha-methyl-2-

oxo-1-pyrrolidineacetamide mono(trifluoroacetate)

(452a) Following the procedures analogous to that used for the preparation of example (450), but using alanine methyl ester in step (450e) and 3,5-dichloro-4-picolyl chloride hydrochloride in step (450j), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.035 g, 35%) as a white amorphous solid. MS (M+H) + =453,455.

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Example 453

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy[phenyl]-N-hydroxy-alpha-methyl-2oxo-3-[[[(2-thiazolylamino)carbonyl]amino]methyl]-1pyrrolidineacetamide

(453a) Following the procedures analogous to that used for the preparation of example (450), but using alanine methyl ester in step (450e) and 3,5-dichloro-4-picolyl chloride hydrochloride in step (450j), the aminomethyl lactam methyl ester similar step (450j) was reacted with 2-isocyano thiazole similar to step (302b), to prepare the title compound. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.03 g, 47%) as a white amorphous solid. MS $(M+H)^+$ =579,581.

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Example 454

[1(R)]-4-[4-[(3,5-dimethylphenyl)methoxy]phenyl]-N-hydroxy-alpha,4-dimethyl-5-oxo-1-imidazolidineacetamide mono(trifluoroacetate)

(454a) Following the procedures analogous to that used for the preparation of example (300), but using 3,5-dimethyl 5 benzyl bromide in step (300c) and methyl iodide in step (300d) the 4-(3,5-dimethylbenzyloxy) phenyl glycine methyl ester was prepared (1.65 g, 80%) as an oil. MS $(M+H, -t-but)^{+} = 357$. (454b) Following the procedures analogous to that used for step (450d), the methyl ester from step (454a) was converted 10 to the 4-(3,5-dimethylbenzyloxy) phenyl glycine acid (1.5 g, 97%) as an oil. MS $(M+Na)^{+} = 422$. (454c) Following the procedures analogous to that used for step (450e), but using alanine methyl ester the 4-(3,5dimethylbenzyloxy) phenyl glycine acid form step (454b) (1.5 15 g, 97%) was converted to the diamino acid. The crude was purified by chromatography on silica gel eluting hexane: ethyl acetate (75:25, v:v) to give the alanine-phenyl glycine compound (1.4 g, 75%) as a foam. MS $(M+H)^{+} = 485$. 20 (454d) Following the procedures similar to that used for step (300j), the N-Boc group of the alanine-phenyl glycine compound from step (454c) was removed to give the amino compound (1.2 gm, 97%) as an oil. MS $(M+H)^{+} = 385$, MS $(M-NH2)^{+} = 368$. (454e) Paraformaldehyde (0.006 g, 0.2 mmol) was added to a solution of the amino compound from step (454d) in toluene (5 25 mL) and NMM (2 eq), the reaction was heated to 80° C for 4.5 h. The reaction was concentrated in vacuo to give the cyclic compound (0.1 g, 100%) as an oil. MS $(M+H)^{+} = 397$. (454f) Following the procedures similar to that used for step (1f), but using the cyclic compound from step (454e) the title 30 compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.015 g, 20%) as a white amorphous solid. MS (M+H)

Example 455

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=398.

[1(R)]-3-[4-[(3,5-dimethylphenyl)methoxylphenyl]-N-hydroxy-3-(hydroxymethyl)-alpha-methyl-2-oxo-1-pyrrolidineacetamide

(455a) Methyl 4-hydroxyphenylacetate (8.0 g, 48.0 mmol), 3,5dimethyl benzyl bromide (12.0 g, 60.0 mmol) and potassium carbonate (8.0 g, 58.0 mmol) were combined in acetone (120 mL) and heated to reflux for 8 h. The reaction was allowed to cool, diluted with ethyl acetate and filtered to remove the solids. The organic solvent was removed in vacuo to give an 10 The crude was purified by chromatography on silica gel eluting hexane: ethyl acetate (95:5, v:v) to give the methyl 4-(2,5-dimethylbenzyloxy)phenyl acetate compound (13.58 g, 99%) as an oil. MS $(M+NH4)^{+} = 302$. (455b) LDA (2.0 M in hexane, 3.5 mL, 7.0 mmol) was added to a solution of methyl 4-(2,5-dimethylbenzyloxy phenylacetate 15 compound from step (455a), (2.0 g, 7.0 mmol) in THF (75 mL) cooled to -78 oC under a nitrogen atmosphere. The reaction was stirred for 40 minutes and the allyl bromide (0.73 mL, 8.4 mmol) was added. The reaction was stirred at -78 oC for 5 h, allowed to warm to rt overnight and was partitioned between 20 ethyl acetate and 1N HCl. The organic layer was washed with brine, dried over magnesium sulfate and concentrated in vacuo. The crude was purified by chromatography on silica gel eluting hexane: ethyl acetate (93:2, v:v) to give the methyl 2-allyl-[4-(2,5-dimethylbenzyloxy)phenyl]acetate compound (1.2 g, 53%) 25 as an oil. MS $(M+NH4)^+=342$. (455c) Sodium methoxide (25% in methanol, 0.08 mL, 0.35 mmol) was added dropwise to a solution of the 2-allyl phenylacetate from step (455b) (1.2 g, 3.7 mmol) and parformaldehyde (0.135 30 g, 4.5 mmol) in DMSO (20 mL) at rt. The reaction was stirred for 1.2 h, diluted with water, acidified with 1N HCl, and extracted with ethyl acetate. The organic layer was washed with brine, dried over magnesium sulfate and concentrated in vacuo, to give the 2-hydroxymethylene-2-allyl phenylacetate (0.91 g, 68%) as an oil. MS $(M+NH4-OCH3)^{+}=342$. 35 (455d) Following the procedures analogous to that used for step (450d), the methyl ester from step (455c) was converted

to the 2-hydroxymethylene-2-allyl phenylacetic acid (0.45 g, 53%) as an oil. MS $(M+Na)^{+}=$.

(455e) Following the procedures analogous to that used for step (450e), but using alanine methyl ester, the 2-

- hydroxymethylene-2-allyl phenylacetic acid from step (455d)

 (0.4 g, 1.2 mmol) was converted to the diamino acid. The

 crude was purified by chromatography on silica gel eluting
 hexane: ethyl acetate (75:25, v:v) to give the
 hydroxymethylene phenylacetamide compound (0.36 g, 71%) as an
 oil. MS (M-H) = 339.
 - (455f) The hydroxymethylene compound from step (455e) (0.35 g, 0.82 mmol) was combined with TEA (1.3 eq), DMAP (0.025 g, 0.2 mmol), and t-butyldimethylchlorosilane (0.136 g, 0.90 mmol) in DMF (10 mL) at rt. The reaction was stirred for 48
- h, diluted with ethyl acetate, washed with saturated ammonium chloride, dried over magnesium sulfate and concentrated to give an oil. The crude was purified by chromatography on silica gel eluting hexane: ethyl acetate (75:25, v:v) to give the O-t-butyldimethylsilyl hydroxymethylene compound (0.16 g, 36%) as an oil. MS (M+Na)⁺ =539.
- (455g) Following the procedures analogous to that used for step (450f), but using allyl phenylacetamide from step (455f) (0.4 g, 0.74 mmol) the aldehyde was prepared. The crude was purified by chromatography on silica gel eluting hexane:
- ethyl ether (95:5, v:v) to give the aldehyde phenylacetamide compound (0.35 g, 87%) as an oil. MS (M+Na)⁺ =564.

 (455h) Following the procedures analogous to that used for step (450g), but using aldehyde phenylacetamide compound from step (455g) (0.35 g, 0.65 mmol) the hydroxymethylene lactam
- was prepared. The crude was purified by chromatography on silica gel eluting methylene chloride: methanol (99:1, v:v) to give the hydroxymethylene lactam compound (0.185 g, 69%) as an oil. MS (M+H)⁺ =412.
- (455i) Following the procedures analogous to that used for step (450d), but using hydroxymethylene lactam methyl ester compound from step (455h) (0.35 g, 0.65 mmol) the hydroxymethylene lactam acid (0.18 g, 100%) was prepared as an oil. MS $(M+Na)^+$ =420.

(455j) Following the procedures analogous to that used for the preparation of step (450e), but using hydroxylamine hydrochloride and the hydroxymethylene lactam acid compound from step (455i) the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.055 g, 30%) as a white amorphous solid. MS $(M+Na)^+$ =435.

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Example 456

[1(R)]-[3-[4-[(3,5-dimethylphenyl)methoxy]phenyl]-1-[2-(hydroxyamino)-1-methyl-2-oxoethyl]-2-oxo-3pyrrolidinyl]methyl ethylcarbamate

(456a) Following the procedures analogous to that used for the preparation of step (302b), but using ethyl isocyanate the hydroxymethylene lactam from step (455h), the lactam carbamate methyl ester compound (0.058 g, 100%) was prepared as an oil. MS $(M+Na)^+$ =505.

(456b) Following the procedures similar to that used for step (1f), but using the carbamate lactam compound from step (456a), the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.019 g, 36%) as a white amorphous solid. MS $(M+Na)^+$ =506.

Example 457

[1(R)]-3-[4-[(2,6-dichloro-4-

(457a) Following the procedures analogous to that used for the preparation of step (300h), but using the hydroxymethylene lactam from step (455h) and 3,5-dichloro-4-picolyl bromide hydrochloride similar to step (300i) and procedures similar to steps (455i and 455j) the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to

give the hydroxamic acid product (0.03 g, 18%) as a white amorphous solid. MS $(M+Na)^{+} = 476,478$.

Example 458

[1(R)]-3-[4-[(3,5-dimethylphenyl)methoxy]phenyl]-N-hydroxy-alpha,3-dimethyl-2-oxo-1-azetidineacetamide

(458a) Following the procedures analogous to that used for the preparation of example (455), but using methyl iodide in step (455b) the hydroxymethylene acetamide methyl ester (0.10 g, 0.25 mmol) from step (e) was reacted with methanesulfonyl chloride (0.025 mL, 0.32 mmol) in pyridine at rt, to give the methanesulfonylmethyl acetamide (0.1 g, 84%) as an oil. MS $(M+Na)^{+} = 500$.

(458b) The methanesulfonylmethyl acetamide (0.1 g, 0,21 mmol) from step (458a) was combined with potassium carbonate (0.125 g, 0.9 mmol) in acetone (3 mL), heated to reflux for 6 h, allowed to cool to rt, diluted with ethyl acetate, filtered to remove the solids and concentrated to give an oil. The crude was purified by chromatography on silica gel eluting hexane:

20 ethyl acetate (80:20, v:v) to give the beta-lactam compound (0.05 g, 63%) as an oil. MS (M+H)⁺ = 382.

(458c) Following the procedures similar to that used for steps (455i and 455j), but using the beta-lactam compound from step (458b) the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.03 g, 80%) as a white amorphous

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solid. MS $(M+H)^+ = 381$.

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Example 459

[1(R)]-3-[5-[(3,5-dimethylphenoxy)methyl]-2thiazolyl]-N-hydroxy-alpha,3-dimethyl-2-oxo-1pyrrolidineacetamide

(459a) Following the procedures similar to that used for step (300a), but using thiopheneacetic acid (7.5 g, 52.7 mmol), the methyl ester was prepared. The crude ester was purified by chromatography on silica gel eluting hexane: ethyl acetate

(90:10, v:v) to give the methyl thiopheneacetate (7.5 g, 92%) as a foam. MS $(M+H)^+$ =157.

(459b) Following the procedures similar to that used for step (455b), but using the methyl thiopheneacetate from step

- 5 (459a), the methyl 2-allyl thiopheneacetate was prepared. The crude ester was purified by chromatography on silica gel eluting hexane: ethyl acetate (95:5, v:v) to give the methyl ally thiopheneacetate (5.9 g, 73%) as a foam. MS (M+H)⁺ =197. (459c) Following the procedures similar to that used for step
- 10 (455b), but using methyl iodide and the methyl allyl thiopheneacetate from step (459b), the methyl 2-allyl-2-methyl thiopheneacetate was prepared. The crude ester was purified by chromatography on silica gel eluting hexane: ethyl acetate (95:5, v:v) to give the methyl 2-ally-2-methyl
- thiopheneacetate (5.6 g, 89%) as an oil. MS (M+NH4)⁺ =228.

 (459d) Following the procedures similar to that used for step (450d), but using methyl 2-ally-2-methyl thiopheneacetate from step (459c), the 2-allyl-2-methyl thiopheneacetic acid was prepared. The crude ester was purified by chromatography on
- 20 silica gel eluting toluene: ethyl acetate:acetic acid (60:40:2, v:v:v) to give the thiopheneacetic acid (2.5 g, 99%) as an oil. MS (M+NH4)⁺ =214.
 - (459e) Following the procedures similar to that used for step (450e), but using 2-ally-2-methyl thiopheneacetic acid from
- step (459d) and alanine methyl ester, the thiopheneacetamide compound was prepared. The crude ester was purified by chromatography on silica gel eluting hexane: ethyl acetate (80:20, v:v) to give the thiopheneacetamide (1.5 g, 83%) as an oil. MS (M+NH4)⁺ =299.
- 30 (459f) Osmium tetraoxide (catalytic) was added to a solution of thiopheneacetamide compound from step (459e) (1.5 g, 5.3 mmol), N-methyl morpholine N-oxide (1.25 g, 10.6 mmol), THF (25 mL) and water (2 mL) at rt under a nitrogen atmosphere. The reaction was stirred overnight, poured into 10% NaHSO3 and
- 35 1N HCl (50 mL) and was extracted with ethyl acetate. The organic layer was washed with brine, dried over magnesium sulfate and concentrated to give an oil. The crude oil was dissolved in methylene chloride (25 mL) and water (5 mL). The

NaIO4 (2.28 g, 10.6 mmol) was added and the reaction was stirred vigorously for 4 h. This was diluted with ethyl acetate, washed with brine, dried over magnesium sulfate and concentrated to give the aldehyde (1.5 g, 99%) as an oil. MS $(M+H-H20)^+$ =266.

- (459g) Following the procedures similar to that used for step (450g), but using aldehyde thiopheneacetacetamide from step (459f) the lactam compound was prepared. The crude ester was purified by chromatography on silica gel eluting hexane:
- ethyl acetate (70:30, v:v) to give the lactam thiophene (1.1 g, 77%) as an oil. MS $(M+H)^+$ =268.
 - (459h) Phosphorous oxychloride (0.95 g, 6.17 mmol) was added slowly to a solution of lactam thiophene from step (451g), (1.1 g, 4.11 mmol) in DMF (0.45 g, 6.17 mmol) and heated to
- 15 85° C for 4 h. The reaction was allowed to cool, partitioned between ethyl acetate and ice water. The organic layer was washed with brine, dried over magnesium sulfate and concentrated in vacuo to give the thiophene aldehyde (0.75 g, 62%) as an oil.
- 20 (459i) Sodium borohydride (0.059 g, 1.69 mmol) was added to a solution of thiophene aldehyde from step (459h) (0.5 g, 1.69 mmol) dissolved in THF (5 mL) and methanol (1 mL), at rt. The reaction was stirred for 20 minutes, partitioned between ethyl acetate and 1N HCl. The organic layer was washed with brine,
- dried over magnesium sulfate and concentrated in vacuo to give the 5-hydroxymethylene-thiophene (0.5 g, 100%) as an oil.

 (459i) The 5-hydroxymethylene-thiophene from step (459i) (5.0 g, 1.69 mmol) was combined with carbon tetrabromide (0.67 g, 2.03 mmol), triphenylphosphine (0.53, 2.03 mmol) in methylene
- ochloride (5 mL) at rt. The reaction was stirred for 4 h and became a dark solution. This was partitioned between methylene chloride and 1N HCl. The organic layer was washed with brine, dried over magnesium sulfate and concentrated in vacuo to give a dark oil. The product was purified by
- 35 chromatography on silica gel eluting hexane: ethyl acetate (50:50, v:v), to give the 5-bromomethylene thiophene (0.15 g 25 %) as an oil. MS $(M+H-Br+OCH3)^+ = 312$.

(459k) Following the procedures similar to that used for step (300i), but using 5-bromomethylene thiophene from step (459j) and 3,5-dimethyl phenol, the lactam thiophene compound was prepared. The crude ester was purified by chromatography on silica gel eluting methylene chloride: ethyl acetate (95:5, v:v) to give the lactam thiophene (0.08 g, 47%) as an oil. MS $(M+NH4)^{+}$ =419.

(4591) Following the procedures similar to that used for steps (1f), but using the lactam thiophene compound from step (459k) the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.015 g, 20%) as a white amorphous solid. MS $(M+Na)^+$ =425.

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Example 460

[1(R)]-4-[4-[(3,5-dimethylphenyl)methoxy]phenyl]-N-hydroxy-alpha-methyl-2,5-dioxo-4-(2-propenyl)-1-imidazolidineacetamide

20 (460a) Following the procedures similar to that used for step (300j), but using N-Boc phenyl glycine from step (300c) (0.5 g, 1.13 mmol), the deprotected phenyl glycine compound (0.51 g, 99%) was prepared as an oil.

(460b) A solution of alanine methyl ester (0.046 g, 0.33 mmol) in methylene chloride (1 mL) and DIEA (0.130 mL) was added slowly to a solution of triphosgene (0.098 g, 0.33 mmol) in methylene chloride (2 mL) at rt. The reaction was stirred for 0.5 h and a solution of deprotected phenyl glycine from step (460a) in methylene chloride (1 mL) and DIEA (0.13 mL)

was added. The reaction was stirred for 2 h, partitioned between ethyl acetate and 1N HCl. The organic layer was washed with brine, dried over magnesium sulfate and concentrated in vacuo to give an oil. The product was purified by chromatography on silica gel eluting methylene chloride: ethyl acetate (90:10, v:v), to give the mixed urea

35 chloride: ethyl acetate (90:10, v:v), to give the mixed urea (0.035 g 23 %) as an oil. MS (M+NH4-OCH3)⁺ =454.

(460c) A suspension of the mixed urea from step (460b) (0.035 g, 0.075 mmol) and potassium carbonate (3 eg) in acetone (5

mL) was heated to reflux for 2 h. The reaction was allowed to cool, diluted with ethyl acetate and filtered to remove the solids, washed with brine and concentrated to give the hydantoin compound (0.025 g, 76%) as an oil. MS $(M+NH4)^+$ =454.

(460d) Following the procedures similar to that used for steps (1f), but using the hydantoin compound from step (460c) the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.015 g, 60%) as a white amorphous solid. MS (M+Na)*=460.

Example 461

15 [1(R)]-N-hydroxy-alpha, 3-dimethyl-2-oxo-3-[[4-(phenylmethoxy)phenyl]methyl]-1-pyrrolidineacetamide (461a) Triphenylphosphine (3.67 g, 14.0 mmol) and carbon tetrabromide (4.46 g, 14.0 mmol) were added to a solution of 4-benzyloxybenzyl alcohol (2.0 g, 9.3 mmol) in dichloromethane 20 (25 mL) at 0 °C. The mixture was warmed to rt for 2.5 h and then concentrated. The residue was triturated with ether, and the solids filtered off. Filtrate was concentrated. Residue purified by silica gel chromatography (ethyl acetate: hexanes. 5:95, v:v). Residue from chromatography was purified further with treatment with ether and filtration of solids. Filtrate 25 was concentrated in vacuo to yield the desired bromide (2.34 g, 90%) as a white solid. MS found: $(M-Br)^+ = 197.$ (461b) A 2.0 M THF solution of lithium diisopropylamide (2.6 mL, 1.15 eq) was added over 10 minutes to a solution of ethyl 30 2-methyl-4-pentenoate (0.75 mL, 4.6 mmol) in THF (18 mL) at The mixture was warmed to -55 °C for 40 minutes then cooled to -78 °C. A solution of bromide compound from step (461a) (1.92 g, 6.9 mmol) in THF was added over 5 minutes to the cooled mixture. After 1 h at -78 °C the mixture was warmed to rt and 1 M HCl (30 mL) was added. 35 The mixture was extracted with ethyl acetate (2 X 30 mL). The combined organic extracts were washed successively with 1N HCl (20 mL),

saturated aqueous sodium bicarbonate (20 mL), water (20 mL),

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brine (20 mL), dried (MgSO4) and concentrated. The residue was purified by silica gel chromatography (hexane, then ethyl acetate:hexanes 2:98, v:v) to give the desired product (950 mg, 60%) as a clear oil. MS found: (M+NH4)+ = 356.

- 5 (461c) Ozone was bubbled through a solution of compound (461b) (0.90 g, 2.6 mmol) in dichloromethane (30 mL) at -78 oC until a blue color persisted in the solution. The mixture was purged with oxygen and treated with triphenylphosphine (0.84 g, 3.2 mmol). The reaction mixture was allowed to warm to rt and stirred for 1 h, then was concentrated in vacuo. The
- and stirred for 1 h, then was concentrated *in vacuo*. The residue was purified by silica gel chromatography (hexane, then ethyl acetate:hexanes 6:94, v:v) to give the desired aldehyde (0.70 g,75%) as a clear oil. MS found: (M+H)+ = 341.
- 15 (461d) Following the procedures similar to that used for steps (1d,1e and 1f), but using the aldehyde compound from step (461c) (650 mg, 1.9 mmol) the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.065 g, 20%)

as a white amorphous solid. MS (M+Na) + =405.

Example 462

[1(R)]-3-[4-[(2,6-dimethyl-4-

(462a) Following the procedures analogous to that used for the preparation of example (300), the N-Boc phenyl glycine compound from step (300d) (3.59 g, 8.72 mmol) was treated with sodium hydride (0.42 g, 17.45 mmol) in DMF (25 mL) at 0° C for 1 h. The methyl iodide (2.47 g, 17.45 mmol) was added, the reaction was allowed to stir for 2 h at rt, partitioned between ethyl acetate and i N HCl. The organic layer was washed with brine, dried over magnesium sulfate and concentrated to give the N-methyl-N-Boc phenyl glycine (3.6 g, 97%) as an oil. MS $(M+Na)^{+}$ =448.

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(462b) Following the procedures analogous to that used for the preparation of example (300), but using the N-methyl-N-Boc phenyl glycine compound from step (462a) and using 2,6-dimethyl picolyl chloride hydrochloride in step (300i) the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.12 g, 34%) as a white amorphous solid. MS (M+H)⁺ =455.

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Example 463

[1(R)]-N-hydroxy-3-(methylamino)-alpha-(2methylpropyl)-3-[4-[(2-methyl-4quinolinyl)methoxy]phenyl]-2-oxo-1-

pyrrolidineacetamide mono(trifluoroacetate)

(463a) Following the procedures analogous to that used for the preparation of example (462), but using 2-methyl-4-chloromethyl quinoline hydrochloride in step (300i) the title compound was prepared. The product was purified by reverse phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.12 g, 34%) as a white amorphous solid. MS (M+H)⁺

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=491.

Example 464

[1(R)]-alpha, 3-dimethyl-N-hydroxy-2-oxo-3-[4(phenylmethoxy)phenyl]-1-piperidineacetamide

(464a) Following the procedures analogous to that used for the preparation of example (1), the ester from step (1b) was treated with lithium hydroxide similar to step (450d) to give the carboxylic acid, which was coupled to alanine methyl ester similar to step (450e), to give the alanyl-phenyl glycine diamino acid as an oil. MS $(M+H)^+=382$.

(464b) 9-BBN (5.0 eq) was added to a solution of the olefin from Step (464a) (0.45 g, 1.18 mmol) in THF (10 mL) cooled to 0°C under nitrogen. The reaction was allowed to warm to rt and stir overnight at rt. The reaction was cooled to 0°C and water (2 mL) was added. The reaction was stirred for 20

minutes, then sodium acetate (1 g, in 2 mL water) and H2O2 (30%) (2.5 mL) were added simultaneously. This was stirred for 40 minutes, concentrated in vacuo, diluted with ethyl acetate and washed with water, brine, dried over magnesium sulfate and concentrated in vacuo to give the alcohol. 5 crude product was purified by chromatography on silica gel eluting methylene chloride: ethyl acetate (1:1, v:v) to give the alcohol (0.41 g, 87%) as an oil. MS $(M+H)^{\dagger} = 400$. (464c) Following the procedure similar to that used for the preparation of step (459j), but using the alcohol from step 10 (464b), the bromide was prepared. The crude product was purified by chromatography on silica gel eluting hexane: ethyl acetate (2:1, v:v) to give the bromide (0.145 g, 71%) as $MS (M+H)^{+} = 462,464.$ an oil. (464d) The bromide from step (464c) (0.145 g, 0.313 mmol) was

15 (464d) The bromide from step (464c) (0.145 g, 0.313 mmol) was treated with sodium hydride (0.019 g, 0.47 mmol) in THF (10 mL) cooled to 0°C under nitrogen. The reaction was stirred for 1.5 h, then partitioned between ethyl acetate and 1N HCl. The organic layer was washed with water, brine, dried over 20 magnesium sulfate and concentrated in vacuo to give the lactam (0.105 g, 84%) as an oil. MS (M+H)⁺ =382.

(464e) Following the procedures analogous to that used for step (1f), but using the lactam from step (464d) the title compound was prepared. The product was purified by reverse 25 phase HPLC on a Vydac C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid product (0.062 g, 60%) as a white amorphous solid. MS (M+Na)⁺

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= 405.

Example 501

$[1(R)]-\alpha-[3-amino-2-oxo-3-[4-(4-$

quinolinylmethoxy)phenyl]-1-pyrrolidinyl]-N-hydroxy-4piperidineacetamide tris(trifluoroacetate)

(501a) Following a procedure analogous to (300f), the aldehyde from (300e) (2.80 g, 6.77 mmol) and amino ester from (142b) (2.42 g, 1.1 eq) were coupled to give the secondary amine as a crude material. MS found: $(M+H)^+ = 670$.

(501b) Following a procedure analogous to (300g), the crude amine from (501a) was converted to the lactam. Silica gel chromatography (ethyl acetate-hexane, 20:80 then 30:70) provided the less polar isomer (1.40 g) and the more polar isomer (1.30 g). The total yield is 63% for two steps. MS found: $(M+Na)^+ = 660$.

(501c) Following a procedure analogous to step (3a), the less polar lactam from (501b) (1.30 g, 2.04 mmol) was hydrogenolized to give the phenol (1.10 g, 98%). MS found: $(M+H)^{+} = 548$.

- (501d) Following a procedure analogous to step (6b), the phenol from (501c) (100 mg, 0.183 mmol) was reacted with 4-chloromethylquinoline hydrochloride to give the ether (75.5 mg, 60%). MS found: $(M+H)^{+} = 689$.
- 15 (501e) Following a procedure analogous to step (92d), the ester from (501d) (69.0 mg, 0.100 mmol) was reacted with hydroxylamine to give the hydroxamic acid (36.0 mg, 52%). MS found: $(M+H)^{+} = 690$.
- (501f) Following a procedure analogous to example 117, the hydroxamic acid from (501e) (30.0 mg, 0.0362 mmol) was reacted with trifluoroacetic acid to give the hydroxamic acid tris(trifluoroacetate) (40.0 mg, 100%). MS found: (M+H)⁺ = 490.

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Example 502

[1(R)]-α-[3-amino-3-[4-[(2,6-dichloro-4pyridinyl)methoxy]phenyl]-2-oxo-1-pyrrolidinyl]-Nhydroxy-4-piperidineacetamide bis(trifluoroacetate)

Beginning with the phenol from (501c) and 4-bromomethyl-2,6-dichloropyridine, example 502 was prepared in an analogous series of reactions to (6b), (92d) and example 117. MS found: $(M+H)^{+} = 508$.

Example 503

[1(R)]-1,1-dimethylethyl 4-[1-[3-[[(1,1dimethylethoxy)carbonyl]amino]-3-[4-[(1,1-dimethyl-4pyridinyl)methoxy]phenyl]-2-oxo-1-pyrrolidinyl]-2-

(hydroxyamino) -2-oxoethyll-1-piperidinecarboxylate mono(trifluoroacetate)

(503a) Following a procedure analogous to step (6b), the phenol from (501c) (1.67 g, 3.05 mmol) was reacted with 4-chloromethyl-2,6-dimethylpyridine hydrochloride to give the picolyl ether (1.576, 77%). MS found: $(M+H)^+ = 667$. (503b) Following a procedure analogous to step (92d), the ester from (501d) (76.0 mg, 0.114 mmol) was reacted with hydroxylamine to give the hydroxamic acid (32.6 mg, 37%). MS found: $(M+H)^+ = 668$.

Example 504

$[1(R)]-\alpha-[3-amino-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-2-oxo-1-pyrrolidinyl]-N-hydroxy-4-piperidineacetamide tris(trifluoroacetate)$

Starting with the hydroxamic acid from example 503, example 504 was prepared in a procedure analogous to example 117. MS found: $(M+H)^+ = 468$.

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Example 505

[1(R)]-\alpha-[3-amino-3-[4-[(2,6-dimethyl-4pyridinyl)methoxy]phenyl]-2-oxo-1-pyrrolidinyl]-Nhydroxy-1-(methylsulfonyl)-4-piperidineacetamide bis(trifluoroacetate)

25 (505a) Following a procedure analogous to example 117, the lactam from (503a) (624 mg, 0.936 mmol) was reacted with TFA to give the piperidine tris(trifluoroacetate) (750 mg, 99%).

MS found: (M+H)⁺ = 467.

(505b) Following a procedure analogous to (49a), the piperidine from (148a) (125 mg, 0.155 mmol) was reacted with methylsulfonyl chloride to give the monosulfonamide (67.0 mg, 80%). MS found: (M+Na)⁺ = 567.

(505c) Following a procedure analogous to step (92d), the crude ester from (505b) was reacted with hydroxylamine. The mixture was purified by reverse phase HPLC on a Dynamax C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid bis(trifluoroacetate) (45.0 mg, 52%). MS found: $(M+H)^+ = 546$.

Example 506

[1(R)]-1-acetyl- α -[3-amino-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-2-oxo-1-pyrrolidinyl]-N-hydroxy-4-piperidineacetamide bis(trifluoroacetate)

Beginning with the piperidine from (505a) and acetyl chloride, example 506 was prepared in an analogous series of reactions to (49a) and (92d). MS found: $(M+H)^{+} = 510$.

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Example 507

[1(R)]-α-[3-amino-3-[4-[(2,6-dimethyl-4pyridinyl)methoxy]phenyl]-2-oxo-1-pyrrolidinyl]-1(2,2-dimethyl-1-oxopropyl)-N-hydroxy-4piperidineacetamide bis(trifluoroacetate)

Beginning with the piperidine from (505a) and trimethylacetyl chloride, example 507 was prepared in an analogous series of reactions to (49a) and (92d). MS found: $(M+H)^+ = 552$.

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Example 508

[1(R)]-1,1-dimethylethyl 4-[1-[3-amino-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-2-oxo-1pyrrolidinyl]-2-(hydroxyamino)-2-oxoethyl]-1piperidinecarboxylate bis(trifluoroacetate)

Beginning with the piperidine from (505a) and di-t-butyl dicarbonate, example 508 was prepared in an analogous series of reactions to (49a) and (92d). MS found: $(M+H)^{+} = 568$.

Example 509

[1(R)]-methyl 4-[1-[3-amino-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-2-oxo-1-pyrrolidinyl]-2(hydroxyamino)-2-oxoethyl]-1-piperidinecarboxylate bis(trifluoroacetate)

Beginning with the piperidine from (505a) and methyl chloroformate, example 509 was prepared in an analogous series of reactions to (49a) and (92d). MS found: (M+H)⁺ = 526.

Example 510

[1(R)]-\alpha-[3-amino-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-2-oxo-1-pyrrolidinyl]-N-hydroxy-1-methyl-4-piperidineacetamidetris(trifluoroacetate)

Beginning with the piperidine from (505a) and formaldehyde, example 506 was prepared in an analogous series of reactions to (86a) and (92d). MS found: $(M+H)^{+} = 482$.

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Example 511

$[1(R)]-\alpha-[3-amino-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-2-oxo-1-pyrrolidinyl]-1-dimethylcarbamyl-N-hydroxy-4-piperidineacetamide bis(trifluoroacetate)$

Beginning with the piperidine from (505a) and dimethylcarbamyl chloride, example 511 was prepared in an analogous series of reactions to (49a) and (92d). MS found: $(M+H)^{+} = 539$.

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Example 512

[1(R)]-\alpha-[3-amino-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-2-oxo-1-pyrrolidinyl]-1cyclopropanecarbonyl-N-hydroxy-4-piperidineacetamide bis(trifluoroacetate)

Beginning with the piperidine from (505a) and cyclopropanecarbonyl chloride, example 512 was prepared in an analogous series of reactions to (49a) and (92d). MS found: $(M+H)^+ = 536$.

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Example 513

[1(R)]-3-amino-N-hydroxy-\alpha-(1-methylethyl)-2-oxo-3-[4-(4-quinolinylmethoxy)phenyl]-1-pyrrolidineacetamide bis(trifluoroacetate)

(513a) Following a procedure analogous to (300f), the aldehyde from (300e) (8.00 g, 19.3 mmol) and D-Val-OMe were coupled to give the secondary amine as a crude material. MS found: $(M+H)^+ = 529$.

(513b) Following a procedure analogous to (300g), the crude amine from (513a) was converted to the lactam. Silica gel chromatography (ethyl acetate-hexane, 20:80 then 25:75) provided the less polar isomer (4.60 g) and the more polar isomer (3.60 g). The total yield is 85% for two steps. (513c) Following a procedure analogous to step (3a), the less polar lactam from (513b) (4.10 g, 8.27 mmol) was hydrogenolized to give the phenol (3.30, 98%). MS found: $(M+Na)^+ = 429$.

10 <u>(513d)</u> Following a procedure analogous to step (6b), the phenol from (513c) (500 mg, 1.23 mmol) was reacted with 4-chloromethylquinoline hydrochloride to give the ether (575 mg, 85%). MS found: (M+Na)⁺ = 570.

(513e) Following a procedure analogous to step (92d), the ester from (513d) (575 mg, 1.05 mmol) was reacted with hydroxylamine to give the hydroxamic acid (380 mg, 66%). MS found: $(M-H)^- = 547$.

(513f) Following a procedure analogous to example 117, the hydroxamic acid from (513e) (380 mg, 0.693 mmol) was reacted with trifluoroacetic acid. The material was purified by reverse phase HPLC on a Dynamax C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid bis(trifluoroacetate) (268 mg, 57%). MS found: (M+H)⁺ = 449.

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Example 514

[1(R)]-3-amino-3-[4-[(2,6-dimethyl-4pyridinyl)methoxy]phenyl]-N-hydroxy-α-(1-methylethyl)-2-οxo-1-pyrrolidineacetamide bis(trifluoroacetate)

Beginning with the phenol from (513c) and 4-chloromethyl-2,6-dimethylpyridine hydrochloride, example 514 was prepared in an analogous series of reactions to (6b), (92d) and example 117. MS found: (M+H)⁺ = 427.

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Example 515

[1(R)]-3-amino- α-cyclohexyl-N-hydroxy-2-oxo-3-[4-(4-quinolinylmethoxy)phenyl]-1-pyrrolidineacetamide bis(trifluoroacetate)

Beginning with the aldehyde from (300e) and D-cyclohexylglycine methyl ester hydrochloride, example 515 was prepared in an analogous series of reactions to example 513. MS found: $(M+H)^+ = 589$.

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Example 516

[1(R)]-3-amino-α-cyclohexyl-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N-hydroxy-2-oxo-1-pyrrolidineacetamide bis(trifluoroacetate)

Beginning with the aldehyde from (300e) and D-cyclohexylglycine methyl ester hydrochloride, example 516 was prepared in an analogous series of reactions to example 513.

MS found: $(M+H)^{+} = 467$.

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Example 517

3-amino-α-(1,1-dimethylethyl)-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N-hydroxy-2-oxo-1-pyrrolidineacetamide bis(trifluoroacetate)

(517a) Following a procedure analogous to (300f), the aldehyde from (300e) (8.40 g, 20.3 mmol) and D-t-Leu-OMe were coupled to give the secondary amine as a crude material. MS found: $(M+H)^+ = 543$.

(517b) Following a procedure analogous to (300g), the crude amine from (517a) was converted to the lactam. Silica gel chromatography (ethyl acetate-hexane, 15:85 then 20:80) provided the less polar isomer (4.60 g, 45%). MS found: $(M+H)^+ = 511$.

(517c) Following a procedure analogous to step (3a), the less polar lactam from (517b) (4.50 g, 8.80 mmol) was

30 hydrogenolized to give the phenol (3.62 g, 98%). MS found: $(M+Na)^+ = 443$.

(517d) Following a procedure analogous to step (6b), the phenol from (517c) (210 mg, 0.500 mmol) was reacted with 4-chloromethyl-2,6-dimethylpyridine hydrochloride to give the ether (240 mg, 89%). MS found: $(M+H)^{+} = 540$.

(517e) The ester from (517d) (220 mg, 0.408 mmol) in concentrate HCl (5 mL) and HOAc (7.5 mL) was heated to 100 °C

overnight and concentrated to give the crude carboxylic acid. MS found: $(M-H)^{-} = 424$.

(517f) The carboxylic acid from (517e), hydroxylamine hydrochloride (160 mg, 5.6 eq), NMM (0.5 mL), BOP (300 mg, 1.7 eq) in DMF (8 mL) were stirred at rt for 4 h. Following addition of sat NH4Cl (25 mL), the mixture was extracted with ethyl acetate several times. The extracts were concentrated and purified by reverse phase HPLC on a Dynamax C-18 semiprep column eluting an acetonitrile:water:TFA gradient, to give the hydroxamic acid bis(trifluoroacetate) (140 mg, 51% for 2 steps). MS found: (M+H) = 441.

Example 518

[1(R)]-3-amino-α-(1,1-dimethylethyl)-N-hydroxy-2-oxo-3-[4-(4-quinolinylmethoxy)phenyl]-1pyrrolidineacetamide bis(trifluoroacetate)

Beginning with the phenol from (517c) and 4-chloromethylquinoline hydrochloride, example 518 was prepared in an analogous series of reactions to (6b), (517e) and (517f). MS found: $(M-H)^- = 461$.

Example 519

[1(R)]-3-amino-α-(1,1-dimethylethyl)-N-hydroxy-2-oxo-3-[4-[(2-methyl-4-quinolinyl)methoxy]phenyl]-1pyrrolidineacetamide bis(trifluoroacetate)

Beginning with the phenol from (517c) and 4-chloromethyl-2-methylquinoline hydrochloride, example 519 was prepared in an analogous series of reactions to (6b), (517e) and (517f). MS found: $(M+H)^+ = 477$

Example 520

[1(R)]-3-amino-N-hydroxy-\alpha-(1-methylethyl)-2-oxo-3-[4-[(2-methyl-4-quinolinyl)methoxy]phenyl]-1pyrrolidineacetamide bis(trifluoroacetate)

Beginning with the phenol from (513c) and 4-chloromethyl-2-methylquinoline hydrochloride, example 520 was prepared in

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an analogous series of reactions to (6b), (92d) and example 117. MS found: $(M+H)^+ = 463$.

Example 521

5 [1(R)]-3-amino-N-hydroxy-α-(1-methylethyl)-2-oxo-3-[4-[(2,6-dimethyl-4-quinolinyl)methoxy]phenyl]-1pyrrolidineacetamide bis(trifluoroacetate)

Beginning with the phenol from (513c) and 4-chloromethyl-2,6-dimethylquinoline hydrochloride, example 521 was prepared in an analogous series of reactions to (6b), (92d) and example 117. MS found: $(M+H)^+ = 477$.

Example 522

[1(R)]-N-[4-[1-[3-amino-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-2-oxo-1-pyrrolidinyl]-2 (hydroxyamino)-2-oxoethyl]-1-piperidine]-4 morpholinecarboxamide bis(trifluoroacetate)

Beginning with the piperidine from (505a) and 4-morpholinecarbonyl chloride, example 522 was prepared in an analogous series of reactions to (49a) and (92d). MS found: $(M+H)^+ = 581$.

Example 523

$[1(R)]-\alpha-[3-amino-3-[4-[(2,6-dimethyl-4-$

pyridinyl)methoxy|phenyl]-2-oxo-1-pyrrolidinyl]-1-(2methyl-1-oxopropyl)-N-hydroxy-4-piperidineacetamide bis(trifluoroacetate)

Beginning with the piperidine from (505a) and isobutyryl chloride, example 523 was prepared in an analogous series of reactions to (49a) and (92d). MS found: $(M+H)^{+} = 538$.

Example 524

[1(R)]-3-amino-3-[4-[(2,6-dimethyl-4pyridinyl)methoxy[phenyl]-N-hydroxy-α-(4methoxycyclohexyl)-2-oxo-1-pyrrolidineacetamide

(524a) Sodium carbonate (6.13 g, 2 eq) and (BOC) 20 (6.30 g, 1 eq) were successively added to D-4-hydroxycyclohexylgrycine

bis(trifluoroacetate)

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(5.00 g, 28.9 mmol, Ciba-Geigy, WO9722587, 1994) in water (120 mL) and dioxane (60 mL) at 0 °C. The mixture was stirred at rt overnight and then adjusted to pH 5-6 with 6 N HCl. Following removal of dioxane, the mixture was diluted with water (150 mL), acidified to pH 2-3, saturated with solid NaCl, and extracted with ethyl acetate (3x250 mL). The combined extracts were dried (MgSO4), and concentrated to give the BOC-protected amino acid (7.80 g, 99%). MS found: (M-H) = 272.

- 10 (524b) A 2.0 M hexane solution of trimethylsilyl diazomethane (18.3 mL, 1.3 eq) was added to the acid from (524a) (7.70 g, 28.8 mmol) in methanol (50 mL) and benzene (200 mL). The mixture was stirred at rt for 30 min, then concentrated. Silica gel chromatography (ethyl acetate-hexane, 50:50) gave
- the ester (7.40 g, 91%). MS found: (M+Na)⁺ = 310.

 (524c) The ester from (524b) (7.20 g, 25.2 mmol) was stirred in 4 N dioxane solution of hydrogen chloride (200 mL) for 30 min and then concentrated to give the amino ester hydrochloride (5.70 g, 100%). MS found: (M+H)⁺ = 188.
- 20 <u>(524d)</u> Following a procedure analogous to (300f), the aldehyde from (300e) (2.00 g, 4.83 mmol) and the methyl ester hydrochloride from (525c) were coupled to give the secondary amine as a crude material. MS found: (M+H)⁺ = 585.

 (524e) Following a procedure analogous to (300g), the crude
- amine from (525d) were cyclized to give the lactam as a crude material (2.71 g). MS found: (M+Na)⁺ = 575.

 (524f) Proton sponge (1.16 g, 3 eq) and trimethyloxonium tetrafluoroborate (803 mg, 3 eq) were added to the crude material from (524d) (1.00 g) in dichloromethane (20 mL).
- After 4 h at rt, ethyl acetate (200 mL) was added. The mixture was washed with water (2x25 mL), brine (25 mL), dried (MgSO4) and concentrated. Silica gel chromatography (35:65 then 40:60 then 45:55) gave the desired methyl ether (628 mg, 62% for 3 steps). MS found: (M+Na) = 589.
- 35 (524g) Following a procedure analogous to step (3a), the lactam from (524f) (838 mg, 1.48 mmol) was hydrogenolized to give the phenol (643.2 mg, 91%). MS found: $(M+Na)^{+} = 499$.

(524h) Following a procedure analogous to step (6b), the phenol from (524g) (200 mg, 0.420 mmol) was reacted with 4chloromethyl-2,6-dimethylpyridine hydrochloride to give the ether (197.4 mg, 79%). MS found: $(M+Na)^{+} = 619.$

- (524i) Following a procedure analogous to step (92d), the 5 ester from (524h) (185.4 mg, 0.311 mmol) was reacted with hydroxylamine to give the hydroxamic acid (top isomer: 67.3 mg; bottom isomer: 60.1 mg). The total yield is 127.4 mg (69%). MS found: $(M+H)^+ = 597$.
- (524i) Following a procedure analogous to step (117), the 10 bottom isomer of the hydroxamic acid from (524i) (56.1 mg, 0.094 mmol) was reacted with TFA to give the deprotected hydroxamic acid (68.1 mg, 100%). MS found: $(M+H)^{+} = 497$.

Example 525 15

$[1'(R)]-N-hydroxy-1, 2-dihydro-\alpha-(1-methylethyl)-2, 2'$ dioxo-6-(phenylmethoxy)spiro[3H-indole-3,3'pyrrolidine]-1'-acetamide

(525a) Cesium carbonate (8.86 g, 2 eq) was added to a solution of dimethyl [4-(benzyloxy)-2-nitrophenyl]malonate (4.87 g, 20 13.6 mmol; Warpehosski, et al. J. Med. Chem. 1988, 31, 590) and allyl bromide (3.53 mL, 3 eq) in DMSO at rt. After 1 h at this temperature, ether (800 mL) and sat ammonium chloride (100 mL) were added. The organic phase was separated, washed with water (3x50 mL), brine (50 mL), dried (MgSO4) and concentrated. Silica gel chromatography (ethyl acetatehexane, 15:85 then 20:80) provided the allylated product (5.28 g, 97%). MS found: $(M+H)^{+} = 400$.

(525b) Following a procedure analogous to step (1c), the olefin from (219a) (5.18 g, 13.0 mmol) was degraded by 30 ozonolysis. Silica gel chromatography (ethyl acetate-hexane, 20:80 then 30:70 then 35:65 then 40:60) provided the aldehyde (4.96 g, 95%). MS found: $(M+NH_4)^{\dagger} = 419$.

(525c) Following a procedure analogous to (300f), the aldehyde from (525b) (510 mg, 1.27 mmol) and D-valine methyl ester 35 hydrochloride were coupled to give the secondary amine as a crude material.

(525d) Following a procedure analogous to (1d), the crude material from (525c) was treated with zinc in acetic acid at reflux. The crude spirolactam was purified by silica gel chromatography (ethyl acetate-hexane, 40:60 then 50:50) to give less polar isomer (180 mg) and more polar isomer (130 mg). The total yield for two steps is 310 mg (58%). MS found: (M-H) = 421.

(525e) Following a procedure analogous to step (92d), the ester from (525d) (25.5 mg, 0.060 mmol) was reacted with hydroxylamine to give the hydroxamic acid (15.2 mg, 60%). MS found: $(M-H)^- = 422$.

Example 526

[1(R)]-α-[3-amino-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-2-oxo-1-pyrrolidinyl]-N-hydroxy-1-(phenylcarbonyl)-4-piperidineacetamidebis(trifluoroacetate)

Beginning with the piperidine from (505a) and benzoyl chloride, example 526 was prepared in an analogous series of reactions to (49a) and (92d). MS found: $(M+H)^{+} = 572$.

Example 527

[1(R)]-α-[3-amino-3-[4-[(2,6-dimethyl-4pyridinyl)methoxy]phenyl]-2-oxo-1-pyrrolidinyl]-Nhydroxy-1-(1-oxopropyl)-4-piperidineacetamide bis(trifluoroacetate)

Beginning with the piperidine from (505a) and propionyl chloride, example 527 was prepared in an analogous series of reactions to (49a) and (92d). MS found: $(M+H)^{+} = 524$.

Example 528

[1(R)]-α-[3-amino-2-oxo-3-[4-(2-methyl-435 quinolinylmethoxy)phenyl]-1-pyrrolidinyl]-1-acetyl-Nhydroxy-4-piperidineacetamide bis(trifluoroacetate)

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Beginning with the phenol from (501c), the title compound was prepared in an analogous series of reactions to (6b), (117), (49a) and (92d), but using 4-chloromethyl-2-methylquinoline in step (6b) and acetyl chloride in step (49a). MS found: $(M+H)^+ = 546$.

Example 529

[1(R)]-\alpha-[3-amino-2-oxo-3-[4-(2-methyl-4quinolinylmethoxy)phenyl]-1-pyrrolidinyl]-N-hydroxy-1(methylsulfonyl)-4-piperidineacetamide bis(trifluoroacetate)

Beginning with the phenol from (501c), the title compound was prepared in an analogous series of reactions to (6b),

(117), (49a) and (92d), but using 4-chloromethyl-2methylquinoline in step (6b) and methanesulfonyl chloride in step (49a). MS found: (M+H) = 582.

Example 530

[1(R)]-α-[3-amino-2-oxo-3-[4-(2-methyl-4-quinolinylmethoxy)phenyl]-1-pyrrolidinyl]-1-(2,2-dimethyl-1-oxopropyl)-N-hydroxy-4-piperidineacetamidebis(trifluoroacetate)

Beginning with the phenol from (501c), the title compound was prepared in an analogous series of reactions to (6b), (117), (49a) and (92d), but using 4-chloromethyl-2-methylquinoline in step (6b) and pivolyl chloride in step (49a). MS found: (M+H) = 588.

Example 531

quinolinylmethoxy)phenyl]-1-pyrrolidinyl]-1-acetyl-Nhydroxy-4-piperidineacetamide bis(trifluoroacetate)

Beginning with the phenol from (501c), the title compound was prepared in an analogous series of reactions to (6b), (117), (49a) and (92d), but using 4-chloromethylquinoline in

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step (6b) and acetyl chloride in step (49a). MS found: $(M+H)^{+}$ = 532.

Example 532

Beginning with the phenol from (501c), the title compound was prepared in an analogous series of reactions to (6b), (117), (49a) and (92d), but using 4-chloromethylquinoline in step (6b) and methanesulfonyl chloride in step (49a). MS found: (M+H)⁺ = 568.

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Example 533

$[1(R)]-\alpha-[3-amino-2-oxo-3-[4-[(3,5-$

dimethoxyphenyl)methoxy]phenyl]-1-pyrrolidinyl]-1acetyl-N-hydroxy-4-piperidineacetamide trifluoroacetate

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Beginning with the phenol from (501c), the title compound was prepared in an analogous series of reactions to (6b), (117), (49a) and (92d), but using 3,5-dimethoxybenzyl bromide in step (6b) and acetyl chloride in step (49a). MS found: $(M+H)^{+} = 541$.

Example 534

[1(R)]-α-[3-amino-2-oxo-3-[4-[(5-methyl-3-nitrophenyl)methoxy]phenyl]-1-pyrrolidinyl]-1-acetylN-hydroxy-4-piperidineacetamide trifluoroacetate

Beginning with the phenol from (501c), the title compound was prepared in an analogous series of reactions to (6b), (117), (49a) and (92d), but using 5-methyl-3-nitrobenzyl bromide in step (6b) and acetyl chloride in step (49a). MS found: $(M+H)^+ = 540$.

Example 535

$[1(R)]-\alpha-[3-amino-2-oxo-3-[4-[3,5-$

bis(trifluoromethyl)phenoxy|phenyl|-1-pyrrolidinyl|-1acetyl-N-hydroxy-4-piperidineacetamide

5 <u>trifluoroacetate</u>

Beginning with the phenol from (501c), the title compound was prepared in an analogous series of reactions to (61a), (117), (49a) and (92d), but using 3,5-

10 bis(trifluoromethyl)benzene boronic acid in step (61a) and acetyl chloride in step (49a). MS found: (M+H)⁺ = 603.

Example 536

$[1(R)] - \alpha - [3-amino-2-oxo-3-[4-[(3,5-$

dichlorophenyl)methoxy]phenyl]-1-pyrrolidinyl]-1acetyl-N-hydroxy-4-piperidineacetamide trifluoroacetate

Beginning with the phenol from (501c), the title compound was prepared in an analogous series of reactions to (6b), (117), (49a) and (92d), but using 3,5-dichlorobenzyl bromide in step (6b) and acetyl chloride in step (49a). MS found: (M+H)⁺ = 549.

25 **Example 537**

[1(R)]- α -[3-amino-2-oxo-3-[4-(6-fluoro-2-methyl-4-quinolinylmethoxy)phenyl]-1-pyrrolidinyl]-1-acetyl-N-hydroxy-4-piperidineacetamide bis(trifluoroacetate)

Beginning with the phenol from (501c), the title compound was prepared in an analogous series of reactions to (6b), (117), (49a) and (92d), but using 4-chloromethyl-6-fluoro-2-methylquinoline in step (6b) and acetyl chloride in step (49a). MS found: (M+H)⁺ = 564.

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Example 538

[1(R)]- α -[3-amino-2-oxo-3-[4-(7-chloro-2-methyl-4-quinolinylmethoxy)phenyl]-1-pyrrolidinyl]-1-acetyl-N-hydroxy-4-piperidineacetamide bis(trifluoroacetate)

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Beginning with the phenol from (501c), the title compound was prepared in an analogous series of reactions to (6b), (117), (49a) and (92d), but using 4-chloromethyl-7-chloro-2-methylquinoline in step (6b) and acetyl chloride in step (49a). MS found: (M+H)⁺ = 580.

Example 539

 $[1(R)]-\alpha-[3-amino-2-oxo-3-[4-(6-chloro-2-methyl-4-guinolinylmethoxy)phenyl]-1-pyrrolidinyl]-1-acetyl-N-hydroxy-4-piperidineacetamide bis(trifluoroacetate)$

Beginning with the phenol from (501c), the title compound was prepared in an analogous series of reactions to (6b), (117), (49a) and (92d), but using 4-chloromethyl-6-chloro-2-methylquinoline in step (6b) and acetyl chloride in step (49a). MS found: $(M+H)^+ = 580$.

Example 540

[1(R)]- α -[3-amino-2-oxo-3-[4-(6-methoxy-2-methyl-4-quinolinylmethoxy)phenyl]-1-pyrrolidinyl]-1-acetyl-N-hydroxy-4-piperidineacetamide bis(trifluoroacetate)

Beginning with the phenol from (501c), the title compound was prepared in an analogous series of reactions to (6b), (117), (49a) and (92d), but using 4-chloromethyl-6-methoxy-2-methylquinoline in step (6b) and acetyl chloride in step (49a). MS found: $(M+H)^+ = 576$.

Example 541

[1(R)]-α-[3-amino-2-oxo-3-[4-(2,7-dimethyl-4quinolinylmethoxy)phenyl]-1-pyrrolidinyl]-N-hydroxy-4piperidineacetamide tris(trifluoroacetate)

Beginning with the phenol from (501c), the title compound was prepared in an analogous series of reactions to (6b), (117) and (92d), but using 4-chloromethyl-2,7-dimethylquinoline in step (6b). MS found: $(M+H)^+ = 518$.

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Example 542

$[1(R)]-\alpha-[3-amino-2-oxo-3-[4-(2,7-dimethyl-4-$ quinolinylmethoxy)phenyl]-1-pyrrolidinyl]-1-acetyl-N- hydroxy-4-piperidineacetamide bis(trifluoroacetate)

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Beginning with the phenol from (501c), the title compound was prepared in an analogous series of reactions to (6b), (117), (49a) and (92d), but using 4-chloromethyl-2,7-dimethylquinoline in step (6b) and acetyl chloride in step (49a). MS found: $(M+H)^+ = 560$.

Example 543

$\frac{[1(R)]-\alpha-[3-amino-2-oxo-3-[4-(2-methoxy-4-$ quinolinylmethoxy)phenyl]-1-pyrrolidinyl]-N-hydroxy-4- piperidineacetamide tris(trifluoroacetate)

Beginning with the phenol from (501c), the title compound was prepared in an analogous series of reactions to (6b), (117) and (92d), but using 4-bromomethyl-2-methoxyquinoline in step (6b). MS found: $(M+H)^+ = 520$.

Example 544 [1(R)]-α-[3-amino-2-oxo-3-[4-[(3,5-dimethoxyphenyl)]-1-pyrrolidinyl]-N-hydroxy-4-piperidineacetamide bis(trifluoroacetate)

Beginning with the phenol from (501c), the title compound was prepared in an analogous series of reactions to (6b), (117) and (92d), but using 3,5-dimethoxybenzyl bromide in step (6b). MS found: $(M+H)^+ = 499$.

Example 545

$[1(R)] - \alpha - [3-amino-3-[4-[(2,6-diethyl-4-$

pyridinyl)methoxy[phenyl]-2-oxo-1-pyrrolidinyl]-Nhydroxy-4-piperidineacetamide tris(trifluoroacetate)

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Beginning with the phenol from (501c), the title compound was prepared in an analogous series of reactions to (6b), (117) and (92d), but using 4-chloromethyl-2,6-diethylpyridine (prepared from 2,6-dichloro-4-hydroxymethylpyridine following the procedure of Tamao, et al Bull. Chem. Soc. Jpn. 1976, 49, 1958 and subsequent treatment with thionyl chloride) in step (6b). MS found: (M+H)⁺ = 496.

Example 546

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[1(R)]-\alpha-[3-amino-3-[4-[(2,6-diethyl-4pyridinyl)methoxy]phenyl]-2-oxo-1-pyrrolidinyl]-1acetyl-N-hydroxy-4-piperidineacetamide tris(trifluoroacetate)

Beginning with the phenol from (501c), the title compound was prepared in an analogous series of reactions to (6b), (117), (49a) and (92d), but using 4-chloromethyl-2,6-diethylpyridine in step (6b) and acetyl chloride in step

(49a). MS found: $(M+H)^{+} = 538$.

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Example 547

$[1(R)]-\alpha-[3-amino-2-oxo-3-[4-(7-methyl-4-$ quinolinylmethoxy)phenyl]-1-pyrrolidinyl]-N-hydroxy-4- piperidineacetamide tris(trifluoroacetate)

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Beginning with the phenol from (501c), the title compound was prepared in an analogous series of reactions to (6b), (117) and (92d), but using 4-chloromethyl-7-methylquinoline in step (6b). MS found: $(M+H)^+ = 504$.

Example 548

[1(R)]-3-amino-N-hydroxy-α-(4-methoxycyclohexyl)-2oxo-3-[4-(4-quinolinylmethoxy)phenyl]-1pyrrolidineacetamide bis(trifluoroacetate)

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Beginning with the phenol from (524g), the title compound was prepared in an analogous series of reactions to (6b), (92d) and (117), but using 4-chloromethylquinoline in step (6b). MS found: $(M+H)^{+} = 519$.

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Example 549

[1(R)]-3-amino-α-(1,1-dimethylethyl)-3-[4-[(2,6-dimethyl-4-quinolinyl)methoxy]phenyl]-N-hydroxy-2-oxo-1-pyrrolidineacetamide bis(trifluoroacetate)

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Beginning with the phenol from (517c), the title compound was prepared in an analogous series of reactions to (517d-f), but using 4-chloromethyl-2,6-dimethylquinoline in step (517d). MS found: $(M+H)^+ = 491$.

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Example 550

[1(R)]-3-[4-[(2,6-dimethyl-1-oxido-4pyridinyl)methoxy]phenyl]-N-hydroxy-α,3-dimethyl-2oxo-1-pyrrolidineacetamide mono(trifluoroacetate)

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(550a) Beginning with the phenol from (6a), the picolyl ether was prepared in an analogous reaction to (6b), but using 4-chloromethyl-2,6-dimethylpyridine. MS found: $(M+H)^+=397$. (550b) A mixture of the picolyl ether from (550a) (100 mg, 0.252 mmol), mCPBA (100 mg, 2 eq), and 40% aqueous HF (0.015 mL), DMF (2 mL) and methanol (0.56 mL) was stirred at rt for 2 h. The mixture was quenched with sat NaHSO3 (1 mL) and sat Na2CO3, and extracted with ethyl acetate. The organic extracts were washed with Na2CO3 (2x), brine (2x), dried (MgSO4) and concentrated to give the pyridine N-oxide (90 mg, 86%). MS found: $(M+H)^+=413$.

(550c) Following procedure analogous to (92d), the material from (550b) was converted to the hydroxamic acid. MS found: $(M+H)^+ = 414$.

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Example 551

[1(R)]-3-amino-\alpha-(1,1-dimethylethyl)-3-[4-[(7-chloro-2-methyl-4-quinolinyl)methoxy]phenyl]-N-hydroxy-2-oxo-1-pyrrolidineacetamide bis(trifluoroacetate)

Beginning with the phenol from (517c), the title compound was prepared in an analogous series of reactions to (517d-f), but using 7-chloro-4-chloromethyl-2-methylquinoline in step (517d). MS found: (M+H)⁺ = 511.

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Example 552

[1(R)]-3-amino-α-(1,1-dimethylethyl)-3-[4-[(6-fluoro-2-methyl-4-quinolinyl)methoxy]phenyl]-N-hydroxy-2-oxo-1-pyrrolidineacetamide bis(trifluoroacetate)

Beginning with the phenol from (517c), the title compound was prepared in an analogous series of reactions to (517d-f), but using 4-chloromethyl-6-fluoro-2-methylquinoline in step (517d). MS found: (M+H)⁺ = 495.

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Example 553

[1(R)]-3-amino-α-(1,1-dimethylethyl)-3-[4-[(6-chloro-2-methyl-4-quinolinyl)methoxy]phenyl]-N-hydroxy-2-oxo-1-pyrrolidineacetamide bis(trifluoroacetate)

Beginning with the phenol from (517c), the title compound was prepared in an analogous series of reactions to (517d-f), but using 6-chloro-4-chloromethyl-2-methylquinoline in step (517d). MS found: (M+H)⁺ = 511.

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Example 554

[1(R)]-3-amino-\alpha-(1,1-dimethylethyl)-3-[4-[(6-methoxy-2-methyl-4-quinolinyl)methoxylphenyl]-N-hydroxy-2-oxo1-pyrrolidineacetamide bis(trifluoroacetate)

Beginning with the phenol from (517c), the title compound was prepared in an analogous series of reactions to (517d-f), but using 4-chloromethyl-6-methoxy-2-methylquinoline in step (517d). MS found: $(M+H)^{\dagger} = 507$.

Example 555

[1(R)]-3-amino-α-(1,1-dimethylethyl)-3-[4-[(2,7-dimethyl-4-quinolinyl)methoxylphenyl]-N-hydroxy-2-oxo-1-pyrrolidineacetamide bis(trifluoroacetate)

Beginning with the phenol from (517c), the title compound was prepared in an analogous series of reactions to (517d-f), but using 4-chloromethyl-2,7-dimethylquinoline in step (517d). MS found: $(M+H)^+ = 491$.

Example 556

[1(R)]-3-amino-α-(1,1-dimethylethyl)-3-[4-[(7-methyl-4-quinolinyl)methoxy]phenyl]-N-hydroxy-2-oxo-1-pyrrolidineacetamide bis(trifluoroacetate)

Beginning with the phenol from (517c), the title compound was prepared in an analogous series of reactions to (517d-f), but using 4-chloromethyl-7-methylquinoline in step (517d). MS found: $(M+H)^+ = 477$.

Example 557

[1(R)]-3-amino- α-cyclohexyl-N-hydroxy-2-oxo-3-[4-(2-methyl-4-quinolinylmethoxy)phenyl]-1pyrrolidineacetamide bis(trifluoroacetate)

Beginning with the aldehyde from (300e), the title compound was prepared in an analogous series of reactions to (513a-f), but using D-cyclohexylglycine methyl ester hydrochloride in step (513a) and 4-chloromethyl-2-methylquinoline in step (513d). MS found: $(M+H)^{+} = 503$.

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Example 558

[1(R)]-3-amino- α-cyclohexyl-N-hydroxy-2-oxo-3-[4-(2,6-dimethyl-4-quinolinylmethoxy)phenyl]-1pyrrolidineacetamide bis(trifluoroacetate)

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Beginning with the aldehyde from (300e), the title compound was prepared in an analogous series of reactions to (513a-f), but using D-cyclohexylglycine methyl ester hydrochloride in step (513a) and 4-chloromethyl-2,6-dimethylquinoline in step (513d). MS found: (M+H)⁺ = 517.

Example 559

[1(R)]-3-amino-3-[4-[(5-methyl-3-nitrophenyl)methoxy]phenyl]-N-hydroxy-\alpha-(1-methylethyl)-2-oxo-1-pyrrolidineacetamide trifluoroacetate

Beginning with the phenol from (513c), the title compound was prepared in an analogous series of reactions to (513d-f), but using 5-methyl-3-nitrobenzyl bromide in step (513d). MS found: $(M+H)^+ = 457$.

Example 560

[1(R)]-3-amino-3-[4-[3,5-

bis(trifluoromethyl)phenoxy]phenyl]-N-hydroxy-α-(1methylethyl)-2-oxo-1-pyrrolidineacetamide trifluoroacetate

Beginning with the phenol from (513c), the title compound was prepared in an analogous series of reactions to (61a) and (513e-f), but using 3,5-bis(trifluoromethyl)benzene boronic acid in step (61a). MS found: (M+H)⁺ = 518.

Example 561

[1(R)]-3-amino-3-[4-[[3,5-

bis(trifluoromethyl)phenyl]methoxy]phenyl]-N-hydroxyα-(1-methylethyl)-2-oxo-1-pyrrolidineacetamide trifluoroacetate

Beginning with the phenol from (513c), the title compound was prepared in an analogous series of reactions to (513d-f), but using 3,5-bis(trifluoromethyl)benzyl bromide in step (513d). MS found: $(M+H)^+ = 534$.

Example 562

[1(R)]-3-amino-3-[4-(3,5-dibromophenoxy)phenyl]-Nhydroxy- α -(1-methylethyl)-2-oxo-1-pyrrolidineacetamide trifluoroacetate

Beginning with the phenol from (513c), the title compound was prepared in an analogous series of reactions to (61a) and (513e-f), but using 3.5-dibromobenzeneboronic acid in step (61a). MS found: $(M+H)^+ = 523$.

Example 563

[1(R)]-3-amino-N-hydroxy-α-(1-methylethyl)-2-oxo-3-[4-(6-fluoro-2-methyl-4-quinolinylmethoxy)phenyl]-1pyrrolidineacetamide bis(trifluoroacetate)

Beginning with the phenol from (513c), the title compound was prepared in an analogous series of reactions to (513d-f), but using 4-chloromethyl-6-fluoro-2-methylquinoline in step (513d). MS found: $(M+H)^+ = 481$.

Example 564

[1(R)]-3-amino-N-hydroxy-\alpha-(1-methylethyl)-2-oxo-3-[4-(6-methoxy-2-methyl-4-quinolinylmethoxy)phenyl]-1pyrrolidineacetamide bis(trifluoroacetate)

Beginning with the phenol from (513c), the title compound was prepared in an analogous series of reactions to (513d-f), but using 4-chloromethyl-6-methoxy-2-methylquinoline in step (513d). MS found: $(M+H)^{+} = 493$.

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Example 565

[1(R)]-3-amino-N-hydroxy-\alpha-(1-methylethyl)-2-oxo-3-[4-(7-chloro-2-methyl-4-quinolinylmethoxy)phenyl]-1pyrrolidineacetamide bis(trifluoroacetate)

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Beginning with the phenol from (513c), the title compound was prepared in an analogous series of reactions to (513d-f), but using 7-chloro-4-chloromethyl-2-methylquinoline in step (513d). MS found: $(M+H)^{+} = 497$.

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Example 566

[1(R)]-3-amino-N-hydroxy-\alpha-(1-methylethyl)-2-oxo-3-[4-(6-chloro-2-methyl-4-quinolinylmethoxy)phenyl]-1pyrrolidineacetamide bis(trifluoroacetate)

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Beginning with the phenol from (513c), the title compound was prepared in an analogous series of reactions to (513d-f), but using 6-chloro-4-chloromethyl-2-methylquinoline in step (513d). MS found: $(M+H)^{+} = 497$.

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Example 567

[1(R)]-3-amino-N-hydroxy-\alpha-(1-methylethyl)-2-oxo-3-[4-(2-methoxy-4-quinolinylmethoxy)phenyl]-1pyrrolidineacetamide bis(trifluoroacetate)

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Beginning with the phenol from (513c), the title compound was prepared in an analogous series of reactions to (513d-f), but using 4-bromomethyl-2-methoxyquinoline in step (513d). MS found: $(M+H)^+ = 479$.

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Example 568

[1(R)]-3-amino-N-hydroxy-\alpha-(1-methylethyl)-2-oxo-3-[4-(2,7-dimethyl-4-quinolinylmethoxy)phenyl]-1pyrrolidineacetamide bis(trifluoroacetate)

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Beginning with the phenol from (513c), the title compound was prepared in an analogous series of reactions to (513d-f),

but using 4-chloromethyl-2,7-dimethylquinoline in step (513d). MS found: $(M+H)^{\dagger} = 477$.

Example 569

5 [1(R)]-3-amino-N-hydroxy-α-(1-methylethyl)-2-oxo-3-[4-[(2,6-diethyl-4-pyridinyl)methoxy]phenyl]-1pyrrolidineacetamide bis(trifluoroacetate)

Beginning with the phenol from (513c), the title compound was prepared in an analogous series of reactions to (513d-f), but using 4-chloromethyl-2,6-diethylpyridine in step (513d).

MS found: $(M+H)^+ = 455$.

Example 700

$[1(R)]-N-hydroxy-\alpha,3-dimethyl-2-oxo-3-[3-$ (phenylmethoxy)phenyl]-1-pyrrolidineacetamide

(700a) To 0.061 grams of methyl ester, obtained in a manner analogous to examples 1a-d, in 4 mL of anhydrous methanol was added 0.116 grams of hydroxylamine hydrochloride and 0.135 grams of sodium methoxide. The reaction was stirred at ambient temperature overnight at which time it was quenched with acetic acid and the volatiles removed under reduced pressure. The resulting material was purified by C18 reverse phase HPLC affording the hydroxamic acid 700. LRMS found (M-H) = 367.

Example 701

[1(R)]-3-[3-[(3,5-dimethylphenyl)methoxy]phenyl]-N-hydroxy- α ,3-dimethyl-2-oxo-1-pyrrolidineacetamide

30 (701a) Following the procedures analogous to examples 1a-d, 3a, 6b and 700a the hydroxamic acid 701 was obtained. LRMS found $(M+H)^{+} = 397$, $(M-H)^{-} = 395$.

Example 702

35 [1(R)]-N-hydroxy-α,3-dimethyl-3-[3-[(3-methylphenyl)methoxylphenyl]-2-oxo-1-pyrrolidineacetamide

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(702a) Following the procedures analogous to examples 1a-d, 3a, 6b and 700a the hydroxamic acid 702 was obtained. LRMS found $(M-H)^- = 381$.

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Example 703

$[1(R)]-N-hydroxy-\alpha,3-dimethyl-3-[3-(1-$

methylethoxy)phenyl]-2-oxo-1-pyrrolidineacetamide

(703a) Following the procedures analogous to examples 1a-d, 3a, 6b and 700a the hydroxamic acid 703 was obtained. LRMS found $(2M+Na)^{+} = 663$.

Example 704

[1(R)]-3-[3-(heptyloxy)phenyl]-N-hydroxy- α ,3-dimethyl-2-oxo-1-pyrrolidineacetamide

15 (704a) Following the procedures analogous to examples 1a-d, 3a, 6b and 700a the hydroxamic acid 704 was obtained. LRMS found $(M-H)^{-} = 375$.

Example 705

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[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy]phenyl]-N1-hydroxy- $\alpha1$ -methyl-2-oxo-N3-1,3,4-thiadiazol-2-yl-1,3-pyrrolidinediacetamide

(705a) To a stirred, cooled (-78° C) solution of 5 grams
methyl ester 705 was added 1.2 eq. of lithium
diisopropylamide over 10 minutes. After stirring for 1 hour
at -78° C 1.7 mL of allyl bromide was added over 5 minutes.
The reaction was allowed to slowly warm to ambient temperature
while stirring overnight. Volatiles were removed under
reduced pressure and the resulting material was diluted with
ethyl acetate and washed with 1N hydrochloric acid. The
aqueous phase was extracted 2 additional times with ethyl
acetate. The combined organic phases were washed with brine,
saturated aqueous sodium bicarbonate, brine, dried over
magmesium sulfate and the volatiles were removed under reduced
pressure. The resulting material was chromatographed on

silica gel eluting with 5% ethyl acetate/hexane affording 4.9 grams of 705a as a white solid. LRMS found $(M+H)^{+} = 297$. (705b) To a stirred, cooled (-78°C) solution of 5 grams (705a) was added 1.02 eq. of lithium diisopropylamide over 10 minutes. After stirring for 1 hour at -78° C 2.55 mL of tbutyl bromoacetate was added over 5 minutes. The reaction was allowed to slowly warm to ambient temperature while stirring overnight. Volatiles were removed under reduced pressure and the resulting material was diluted with ethyl acetate and washed with 1N hydrochloric acid. The aqueous 10 phase was extracted 3 additional times with ethyl acetate. The combined organic phases were washed with brine, saturated aqueous sodium bicarbonate, brine, dried over magmesium sulfate and the volatiles were removed under reduced pressure. 15 The resulting material was chromatographed on silica gel eluting with 5% ethyl acetate/hexane affording 5 grams of 705b as a white solid. LRMS found (M+Na) = 433. (705c) To 55 grams of methyl ester 705b in 600 mL of dimethyl sulfoxide, 400 mL of water and 1000 mL of methanol was added 55 grams of lithium hydroxide monohydrate. The reaction was 20 stirred at 79°C for 3 hours. The mixture was concentrated to about half original volume and poured into ice. The mixture was acidified with 1N hydrochloric acid and extracted 4 times with diethyl ether. The combined ether extracts were washed three times with water, twice with brine and dried over 25 magnesium sulfate. The volatiles were removed under reduced pressure and the resulting material was recrystallized from acetone/hexane affording 45 grams of the acid 705c as a white solid. LRMS found $(M+Na)^{+} = 419$.

30 (705d) To 1.3 grams of acid 705c in 20 mL of N,N-dimethylformamide was added 1.44 mL of 4-methylmorpholine and 1.44 grams of O-(7-azabenzotriazol-1-yl)-1,1,3,3-tetramethyluronium hexafluorophosphate. After stirring 30 minutes 0.46 grams of D-alanine methyl ester hydrochloride was added. The reaction was stirred 18 hours at ambient temperature and for 45 minutes at 60°C. The volatiles were removed under reduced pressure and the resulting material was

partitioned in ethyl acetate and washed with 1N hydrochloric acid saturated with sodium chloride. The aqueous phase was extracted another two times with ethyl acetate. The combined organic phases were washed with brine, saturated aqueous sodium bicarbonate, brine, dried over magnesium sulfate and the volatiles were removed under reduced pressure. The resulting material was chromatographed on silica gel eluting with 25% ethyl acetate/hexane affording 1.6 grams of 705d. LRMS found (M+Na) = 504.

10 (705e) To a stirred, cooled (-78°C) solution of 0.90 grams of 705d in 20 mL of dichloromethane was bubbled ozone until the mixture attained a blue color. Ozone was added for an additional 10 minutes followed by a 15 minute oxygen flush. To this material was added 0.54 grams of triphenylphosphine and the reaction was allowed to slowly warm to ambient temperature while stirring 48 hours. The volatiles were removed under reduced pressure and the resulting material was chromatographed on silica gel eluting with a gradient of 25% ethyl acetate/hexane to 50% ethyl acetate/hexane affording 0.620 grams of 705e as a viscous oil. LRMS found (M+Na)⁺ = 506.

(705f) To a stirred cooled (-20°C: carbon tetrachloride/dry ice) solution of 14.1 grams of 705e in 500 mL of dichloromethane was added 23.3 mL of triethylsilane and 11.2 mL of triflouroacetic acid. The reaction was stirred 1 hour at 0°C and 2 hours at room temperature. The reaction was made basic by the addition of saturated aqueous sodium bicarbonate and partitioned with chloroform. The aqueous was extracted 3 more times with chloroform. The combined organic phases were washed with brine, dried over magnesium sulfate and the volatiles were removed under reduced pressure affording 11.3 grams of 705f. LRMS found $(M+Na)^{+} = 490$. (705g) To 3 grams of 705f in 20 mL of methanol was added 0.30 grams of 10% palladium on carbon. The reaction was stirred 3 hours under hydrogen (balloon). The catalyst was filtered through a 0.45 uM PTFE filter and the volatiles were removed

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under reduced pressure affording 2.4 grams of phenol 705g. LRMS found $(M+Na)^{\dagger} = 400$.

(705h) To 1.2 grams of 705g in 20 mL of DMSO was added 1.54 grams of 3-bromomethyl 2,5-dichloropyridine and 2.32 grams of cesium carbonate. After stirring for two hours at ambient temperature the reaction was diluted with diethyl ether and washed with brine. The aqueous was extracted an additional three times with ether. All organics were combined and washed with saturated aqueous sodium bicarbonate, water, brine, dried over magnesium sulfate and the volatiles were removed under reduced pressure. The resulting material was chromatographed on silica gel eluting with 2% methanol/chloroform affording 1.1 grams of 705h. LRMS found (M+H)⁺ = 481.

(705i) To 1.1 grams of 705h in 50 mL of dichloromethane was added 10 mL of trifluoroacetic acid. After stirring 3 hours the volatiles were removed under reduced pressure affording 1 gram of 705i. LRMS found $(M+Na)^+ = 503$.

(705j) To 0.50 grams of 705i in 20 mL of N,N-dimethylformamide was added 0.46 mL of 4-methylmorpholine,

0.315 grams of 2-amino-1,3,4-thiadiazole and 0.474 grams of 0-(7-azabenzotriazol-1-yl)-1,1,3,3-tetramethyluronium hexafluorophosphate. After stirring 10 hours at room temperature the reaction was heated at 60°C for 45 minutes. The volatiles were removed under reduced pressure and the resulting material was diluted with ethyl acetate and washed with 1N hydrochloric acid saturated with sodium chloride. The aqueous was extracted 3 times with ethyl acetate and all the

aqueous sodium bicarbonate, brine, dried over magnesium

30 sulfate, and the volatiles were removed under reduced pressure
affording 0.60 grams of 705j. LRMS found (M-H) = 562.

(705k) To 0.55 grams of 705j in 20 mL of 1:1
tetrahydrofuran/water was added 0.12 grams of lithium

organics were combined and extracted with brine, saturated

hydroxide monohydrate. After stirring 3 hours at ambient 35 temperature the reaction volume was reduced by half under reduced pressure, diluted with water and washed twice with diethyl ether. The ether phases were combined and extracted

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twice with water. All aqueous phases were combined, acidified with 1N hydrochloric acid and extracted 3 times with ethyl acetate. The combined ethyl acetate extracts were washed with water, brine, dried over magnesium sulfate and the volatiles were removed under reduced pressure affording 0.52 grams of 705k. LRMS found $(M-H)^- = 548$.

(7051) To 0.40 grams of 705k in 20 mL of N,N-dimethylformamide was added 0.8 mL of 4-methyl morpholine, 0.202 grams of hydroxylamine hydrochloride and 0.354 grams of benzotriazol-1-yl-oxy-tris(dimethylamino)phosphonium-hexafluorophosphate. After stirring overnight at ambient temperature the volatiles were removed under reduced pressure and the resulting material was separated on C18 reverse phase HPLC isolating 0.18 grams of faster isomer 705l. LRMS found 15 (M-H) = 563.

Example 706

[1(R)]-1,1-dimethylethyl 1-[2-(hydroxyamino)-1-methyl-2-oxoethyl]-2-oxo-3-[4-(phenylmethoxy)phenyl]-3pyrrolidineacetate

(706a) Following the procedures analogous to examples 705a-j and 700a the hydroxamic acid 706 was obtained and isolated as the faster isomer by reverse phase HPLC. LRMS found (M-H)-=467, $(M+H)^+=469$

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Example 707

[1(R)]-1-[2-(hydroxyamino)-1-methyl-2-oxoethyl]-2-oxo-3-[4-(phenylmethoxy)phenyl]-3-pyrrolidineacetic acid

(707a) To 0.015 grams of hydroxamic acid 706 in 3 mL of dichloromethane was added 0.5 mL of trifluoroacetic acid. After stirring one hour the volatiles were removed under reduced pressure affording 0.009 grams of 707. LRMS found $(M+Na)^+ = 435$, $(M-H)^- = 411$

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Example 708

[1(R)]-3-[4-[(3,5-dimethylphenyl)methoxy]phenyl]-N1hydroxy- α 1-methyl-N3-[2-(methylamino)-2-oxoethyl]-2oxo-1,3-pyrrolidinediacetamide

(708a) Following the procedures analogous to examples 705a-j and 700a the hydroxamic acid 708 was obtained and isolated as the faster isomer by reverse phase HPLC. LRMS found $(M+Na)^+$ = 533.

Example 709

10 [1(R)]-3-[4-[(3,5-dimethylphenyl)methoxy]phenyl]-N1hydroxy-α1-methyl-2-oxo-N3-2-thiazolyl-1,3pyrrolidinediacetamide

(709a) Following the procedures analogous to examples 705a-j and 700a the hydroxamic acid 709 was obtained and isolated as the faster isomer by reverse phase HPLC. LRMS found (M-H) = 521.

Example 710

20 [1(R)]-3-[4-[(3,5-dimethylphenyl)methoxy]phenyl]-Nhydroxy-α-methyl-3-[2-(4-morpholinyl)-2-oxoethyl]-2oxo-1-pyrrolidineacetamide

(710a) Following the procedures analogous to examples 705a-j and 700a the hydroxamic acid 710 was obtained and isolated as the faster isomer by reverse phase HPLC. LRMS found (M+Na)⁺ = 532.

Example 711

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy]phenyl]-N1-hydroxy-α1-methyl-2-oxoN3-2-thiazolyl-1,3-pyrrolidinediacetamide mono(trifluoroacetate)

(711a) Following the procedures analogous to examples 705a-j and 700a the hydroxamic acid 711 was obtained and isolated as the faster isomer by reverse phase HPLC. LRMS found (M+H)⁺ = 564.

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Example 712

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy]phenyl]-N1-hydroxy-α1-methyl-2-oxo-N3-[2-(4-morpholinyl)ethyl]-1,3-prrolidinediacetamide) bis(trifluoroacetate)

(712a) Following the procedures analogous to examples 705a-j and 700a the hydroxamic acid 712 was obtained and isolated as the faster isomer by reverse phase HPLC. LRMS found $(M+H)^{\dagger} = 594$

Example 713

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy]phenyl]-N1-hydroxy-α1-methyl-2-oxoN3-(4-pŷridinylmethyl)-1,3-pyrrolidinediacetamide bis(trifluoroacetate)

(713a) Following the procedures analogous to examples 705a-j and 700a the hydroxamic acid 713 was obtained and isolated as the faster isomer by reverse phase HPLC. LRMS found $(M+Na)^{+} = 594$

Example 714

[1(R)]-3-[4-[(2,6-dimethyl-4-

(714a) Following the procedures analogous to examples 705a-j and 700a the hydroxamic acid 714 was obtained and isolated as the faster isomer by reverse phase HPLC. LRMS found $(M+H)^{+}$ = 524.

Example 715

[1(R)]-3-[4-[(2,6-dichloro-4-

35 <u>pyridinyl)methoxylphenyl]-N1-hydroxy-α1-methyl-2-oxo-N3-(3-pyridinylmethyl)-1,3-pyrrolidinediacetamide</u>
mono(trifluoroacetate)

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(715a) Following the procedures analogous to examples 705a-j and 700a the hydroxamic acid 715 was obtained and isolated as the faster isomer by reverse phase HPLC. LRMS found $(M+Na)^{+} = 594$.

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Example 716

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy]phenyl]-N1-hydroxy-α1-methyl-2-oxo-N3-(2-pyridinylmethyl)-1,3-pyrrolidinediacetamide mono(trifluoroacetate)

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(716a) Following the 716 analogous to examples 705a-j and 700a the hydroxamic acid 706 was obtained and isolated as the faster isomer by reverse phase HPLC. LRMS found $(M+H)^{+} = 572$.

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Example 717

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl) methoxylphenyll-N1-hydroxy- α1-methyl-2-oxoN3-4-pyridinyl-1,3-pyrrolidinediacetamide mono(trifluoroacetate)

20 (717a) Following the procedures analogous to examples 705a-j and 700a the hydroxamic acid 717 was obtained and isolated as the faster isomer by reverse phase HPLC. LRMS found $(M+H)^{+} = 558$.

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Example 718

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxylphenyl]-N1-hydroxy- $\alpha1$ -methyl-N3-(3-methyl-5-isothiazolyl)-2-oxo-1,3-

<u>pyrrolidinediacetamide</u>

30 (718a) Following the procedures analogous to examples 705a-1 the hydroxamic acid 718 was obtained and isolated as the faster isomer by reverse phase HPLC. LRMS found (M-H) = 576.

Example 719

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$\frac{[1(R)]-3-[4-[(2,6-dichloro-4-$ pyridinyl)methoxy]phenyl]-N3-[5-(1,1-dimethylethyl)-

1,3,4-thiadizol-2-yl]-N1-hydroxy-α1-methyl-2-oxo-1,3pyrrolidinediacetamide

(719a) Following the procedures analogous to examples 705a-1 the hydroxamic acid 719 was obtained and isolated as the faster isomer by reverse phase HPLC. LRMS $(M-H)^{-} = 619$.

Example 720

[1(R)]-1,1-dimethylethyl 2-[[[3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-1-[2-(hydroxyamino)-1-methyl-2-oxoethyl]-2-oxo-3-pyrrolidinyl]acetyl]amino]4-thiazoleacetate

(720a) Following the procedures analogous to examples 705a-1 the hydroxamic acid 720 was obtained and isolated as the faster isomer by reverse phase HPLC. LRMS (M-H) = 676.

Example 721

[1(R)]-2-[[[3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy]phenyl]-1-[2-(hydroxyamino)-1methyl-2-oxoethyl]-2-oxo-3-pyrrolidinyl]acetyl]amino]4-thiazoleacetic acid

(721a) Following the procedures analogous to examples 705a-1 and 707a the hydroxamic acid 721 was obtained and isolated as the faster isomer by reverse phase HPLC. LRMS found $(M-H)^- = 620$.

Example 722

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxylphenyl]-N1-hydroxy- α1-methyl-N3-[4-[2-(methylamino)-2-oxoethyl]-2-thiazolyl]-2-oxo-1,3pyrrolidinediacetamide

(722a) Following the procedures analogous to examples 705a-j, 707a,705j-l the hydroxamic acid 722 was obtained and isolated as the faster isomer by reverse phase HPLC. LRMS found $(M+Na)^+ = 657$.

Example 723

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[1(R)]-3-(1H-benzimidazol-2-ylmethyl)-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N-hydroxy- α -methyl-2-oxo-1-pyrrolidineacetamide

(723a) To 0.20 grams of acid obtained by procedures analogous to 705a-i in 5 mL of N, N-dimethylformamide was added 0.18 mL 5 of 4-methyl morpholine, 0.135 grams of phenyldiamine, and 0.173 grams of O-(7-azabenzotriazol-1-yl)-1,1,3,3tetramethyluronium hexafluorophosphate. After stirring for 12 hours at ambient temperature the volatiles were removed under 10 reduced pressure and the resulting material was washed with brine and 1 mL of 10% aqueous citric acid. The aqueous was extracted twice with ethyl acetate and the combined organic phases were washed with brine, saturated aqueous sodium bicarbonate, brine, dried over magnesium sulfate and the volatiles were removed under reduced pressure affording 723a. 15 LRMS found $(M+H)^{\dagger} = 571$.

(723b) To 0.20 grams of 723a in 40 mL of 1:1 tetrahydrofuran/acetic acid was heated to reflux for 1.5 hours. The volatiles were removed under reduced pressure and the resulting material was dissolved in ethyl acetate and washed with water. The aqueous phase was extracted twice with ethyl acetate and the combined organic phases were washed with water, saturated aqueous sodium bicarbonate, brine, dried over magnesium sulfate and the volatiles were removed under reduced pressure affording 0.17 grams of 723b. LRMS found (M+H)⁺ = 553.

(723c) To 0.15 grams of 723b in 6 mL of 1:1 tetrahydrofuran/water was added 0.065 grams of lithium hydroxide monohydrate. After stirring for two hours at ambient temperature the volatiles were removed under reduced pressure and the resulting material was dissolved in ethyl acetate and washed 1N hydrochloric acid. The aqueous was extracted twice with ethyl acetate and the combined organic phases were washed with brine, dried over magnesium sulfate and the volatiles were removed under reduced pressure affording 0.11 grams of 723c. LRMS found (M+H) = 539.

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(723d) Following the procedure analogous to 7051 the hydroxamic acid 723d was obtained and isolated as the faster isomer by C18 reverse phase HPLC. LRMS found (M+H)+ = 554.

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Example 724

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy]phenyl]-N-hydroxy-3-(3H-imidazo(4,5c]pyridin-2-ylmethyl)- α-methyl-2-oxo-1pyrrolidineacetamide

(724a) Following the procedures analogous to examples 723a-d the hydroxamic acid 724 was obtained and isolated as the

faster isomer by reverse phase HPLC. LRMS found (M+H) = 555.

Example 725

15 [1(R)]-3-[4-[3,5-bis(trifluoromethyl)phenoxy]phenyl]N1-hydroxy- α1-methyl-2-oxo-N3-2-thiazolyl-1,3pyrrolidinediacetamide

(725a) Following the procedures analogous to examples 705a-g, 61a, and 705i-l, the hydroxamic acid 725 was obtained and isolated as the faster isomer by reverse phase HPLC. LRMS found $(M-H)^- = 615$.

Example 726

[1(R)]-3-[4-[3,5-bis(trifluoromethyl)phenoxy]phenyl]N1-hydroxy- α1-methyl-2-oxo-N3-(4-pyridinylmethyl)-1,3pyrrolidinediacetamide mono(trifluoroacetate)

(726a) Following the procedures analogous to examples 705a-g, 61a, and 705i-l, the hydroxamic acid 726 was obtained and isolated as the faster isomer by reverse phase HPLC. LRMS found $(M+H)^{+} = 625$.

Example 780

[1(R)]-3-[4-[(2,6-dimethyl-4-

pyridinyl)methoxylphenyll-N1-hydroxy-α1-(1-methylethyl)-2-oxo-N3-(4-pyridinylmethyl)-1,3-pyrrolidinediacetamide

(780a) A 1.0 M tetrahydrofuran solution of sodium bis(trimethylsilyl)amide (192.5 mL, 1.1 eq) was added over 30 min to methyl 4-benzyloxyphenylacetate (44.95 g, 175 mmol) in tetrahydrofuran (900 mL) at -78 °C. After 1 h at -78 °C, DMPU (52.9 mL, 2.5 eq) was added over 15 min. The cold bath was 5 replaced with an ice-water bath, and 2-benzyloxyethyl iodide (50.45 g, 1.1 eq) in THF (40 mL) was added dropwise. After 2 h at 0 °C, sat ammonium chloride (500 mL) was added. Following removal of THF in vacuo, the residue was diluted with water (250 mL) and extracted with 1:2 mixture of ether-10 hexane (3x500 mL). The combined extracts were washed with water (2x100 mL), brine (100 mL), dried (MgSO4) and concentrated. The residue was filtered through a silica gel pad and the filter cake rinsed with ethyl acetate-hexane (20:80) until free of product. The filtrate was concentrated 15 and used in the next step without purification. MS found: $(M+H)^{+} = 391.$ (780b) Following a procedure analogous to (1a), the crude material from (780a) was reacted with allyl bromide. The crude material was used in the next step without purification. 20 $(M+H)^{+} = 431.$ MS found: (780c) Following a procedure analogous to (1c), the crude material from (780b) was ozonolized. Silica gel chromatography (ethyl acetate-hexane, 15:85 then 20:80 then 25:75) gave the desired aldehyde (43.27 g, 57% for three 25 steps). MS found: $(M+H)^{\dagger} = 433$. (780d) Following a procedure analogous to (1d), the aldehyde from (780c) (3.00 g, 6.94 mmol) and D-valine ethyl ester hydrochloride was condensed to give the lactam (2.50 g, 68%) as a 1:1 mixture of two isomers. MS found: $(M+H)^{+} = 530$. 30 (780e) Following a procedure analogous to step (3a), the lactam from (780d) (4.50 g, 8.51 mmol) was hydrogenolized to give the phenol (2.30 g, 77%). MS found: $(M+H)^{+} = 350$. (780f) Following a procedure analogous to step (6b), the phenol from (780e) (975 mg, 2.79 mmol) was reacted with 4-35 chloromethyl-2,6-dimethylpyridine hydrochloride to give the picolyl ether (818 mg, 62%). MS found: $(M+H)^{+} = 455$.

(780g) Ruthenium chloride monohydrate (18 mg, 0.05 eq) was added to a mixture of the picolyl ether from (780f) (790 mg, 1.69 mmol), sodium periodate (1.44 g, 4 eq), acetonitrile (2 mL), carbon tetrachloride (2 mL) and water (3.5 mL). After 5 h at rt, the mixture was extracted with chloroform (3x). The extracts were washed with brine, dried (MgSO4) and concentrated to give the crude carboxylic acid (710 mg). MS found: (M+H)⁺ = 469.

(780h) Following a procedure analogous to step (705j), the carboxylic acid from (780g) (218 mg, 0.452 mmol) was coupled with 4-picolylamine to give the amide (179 mg, 69%). MS found: (M+H)⁺ = 573.

(780i) Following a procedure analogous to step (92d), the ester from (780h) was reacted with hydroxylamine to give the desired hydroxamic acid (40 mg, 23%). MS found: $(M+H)^+ = 560$.

Example 781

[1(R)]-3-[4-[(2,6-dichloro-4pyridinyl)methoxy]phenyl]-N1-hydroxy-α1-(1methylethyl)-2-oxo-N3-(4-pyridinylmethyl)-1,3pyrrolidinediacetamide

Beginning with the phenol from (780e) and 4-bromomethyl-2,6-dichloropyridine, example 781 was prepared in an analogous series of reactions to (780f-i). MS found: $(M+H)^{+} = 600$.

Example 782

[1(R)]-\alpha1-(cyclohexylmethyl)-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N1-hydroxy-2-oxo-N3-(4-pyridinylmethyl)-1,3-pyrrolidinediacetamide

Beginning with the aldehyde from (780c) and D-cyclohexylmethylglycine methyl ester, example 782 was prepared in an analogous series of reactions to (780d-i). MS found: $(M+H)^{+} = 614$.

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Example 783

[1(R)]-α1-(cyclohexylmethyl)-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N1-hydroxy-2-oxo-N3-(4-pyridinylmethyl)-1,3-pyrrolidinediacetamide

Beginning with the aldehyde from (780c) and D-cyclohexylmethylglycine methyl ester and using 4-bromomethyl-2,6-dichloropyridine in place of 4-chloromethyl-2,6-dimethylpyridine, example 783 was prepared in an analogous series of reactions to (780d-i). MS found: $(M+H)^+ = 654$.

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Example 784

[1(R)]-1,1-dimethylethyl [5-[3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-2-oxo-3-[2-oxo-2-[(4-pyridinylmethyl)amino]ethyl]-1-pyrrolidinyl]-6 (hydroxyamino)-6-oxohexyl]carbamate

Following a sequence analogous to example 705, example 784 was prepared. MS found: $(M+H)^{+} = 689$.

Example 785

[1(R)]-\alpha1-(4-aminobutyl)-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N1-hydroxy-2-oxo-N3-(4-pyridinylmethyl)-1,3-pyrrolidinediacetamidetris(trifluoroacetate)

Example 785 was prepared from example 784 following a 25 procedure similar to example 117. MS found: $(M+2H)^{2+} = 590$.

Example 800

[1(R)]-3-[3-(1H-benzotriazol-1-ylmethoxy)phenyl]-N-hydroxy- α , 3-dimethyl-2-oxo-1-pyrrolidineacetamide

(800a) To 0.090 grams of methyl ester, obtained in a manner analogous to examples 1a-d, in 1 mL of anhydrous methanol was added 0.153 grams of hydroxylamine hydrochloride and 0.18 grams of sodium methoxide. The reaction was stirred at room temperature overnight at which time it was quenched with hydrochloric acid and the volatiles were removed under reduced pressure. The resulting material was purified by reverse phase HPLC affording the hydroxamic acid 800. LRMS found (M-H) = 408.

Example 801

[1(R)]-N-hydroxy-3,4,4-trimethyl- α -[3-methyl-2-oxo-3[4-(phenylmethoxy)phenyl]-1-pyrrolidinyl]-2,5-dioxo-1-imidazolidinepropanamide

(801a) Following the procedures analogous to examples 1a-d, 6b and 800a the hydroxamic acid 801 was obtained. LRMS found $(M+H)^{+} = 509$, (M-H) - = 507 (M+Na) + = 531

10 Example 802

[1(R)]-1,1-dimethylethyl 1-[(hydroxyamino)carbonyl]-3-methylbutyl]-2-oxo-3-[4-(phenyl]-3-pyrrolidineacetate (802a) Following the procedures analogous to examples 705a-f and 1e the hydroxamic acid was obtained and isolated by reverse phase HPLC. LRMS found (M-H)- = 509, $(M+H)^+$ = 511, (M+Na)+ = 533.

Example 803

[1(R)-N1-hydroxy-3-[4-[(3,5-

20 <u>dimethylphenyl)methoxy]phenyl]-N3-[2-(methylamino)-2-oxoethyl]-α-(2-methylpropyl)-2-oxo-1,3-</u> pyrrolidinediacetamide

(803a) Following the procedures analogous to examples 705a-j and 1e the hydroxamic acid was obtained and isolated by reverse phase HPLC. LRMS found $(M+Na)^+ = 533$, (M-H) - = 551, (M+H) + = 553.

Example 804

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy]phenyl]-N1-hydroxy-N3- [2-(methylamino)-2-oxoethyl]-alpha1-(2-methylpropyl)-2oxo- 1,3-pyrrolidinediacetamide

(804a) Following the procedures analogous to examples 705a-j and 1e the hydroxamic acid was obtained and isolated by reverse phase HPLC. LRMS found (M+H)+ = 595.

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Example 805

[1(R)]-3-[4-[(2,6-dichloro-4-

pyridinyl)methoxy[phenyl]-N1-hydroxy-\alpha1-(2-methylpropyl)-2-oxo-N3-2-thiazolyl-1,3-

pyrrolidinediacetamide

(805a) Following the procedures analogous to examples 705a-j and 1e the hydroxamic acid was obtained and isolated by reverse phase HPLC. LRMS found (M+H) + = 607, (M-H) - = 605.

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Example 806

[1(R)]-3-[4-[3,5-bis(trifluoromethyl)phenoxy]phenyl]-N1-hydroxy-N3-[2-(methylamino)-2-oxoethyl]-α1-(2methylpropyl)-2-oxo-1,3-pyrrolidinediacetamide

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(806a) Following the procedures analogous to examples 705a-g, 61a, 705i, 705j, and 1e the hydroxamic acid was obtained and isolated by reverse phase HPLC. LRMS found (M+H)+=647, (M-H)-=645, (M+Na)+=669.

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Example 807

[1(R)]-3-[4-[3,5-bis(trifluoromethyl)phenoxy]phenyl]N1-hydroxy-\alpha1-(2-methylpropyl)-2-oxo-N3-(4pyridinylmethyl)-1,3-pyrrolidinediacetamide mono(trifluoroacetate)

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(807a) Following the procedures analogous to examples 705a-g, 61a, 705i, 705j, and 1e the hydroxamic acid was obtained and isolated by reverse phase HPLC. LRMS found (M+H)+ = 667.

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Example 808

[1(R)]-3-[4-[(2,6-dichloro-4pyridinyl)methoxy]phenyl]-N1-hydroxy-α1-(2methylpropyl)-2-oxo-N3-phenyl-1,3pyrrolidinediacetamide

(808a) Following the procedures analogous to examples 705a-1 the hydroxamic acid was obtained and isolated by reverse phase HPLC. LRMS found (M+H) + = 600.

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Example 809

[1(R)]-3-[4-[(2,6-dimethyl-4-

pyridinyl)methoxy]phenyl]-N1-hydroxy-N3-methyl-α1-(2methylpropyl)-2-oxo-1,3-pyrrolidinediacetamide mono(trifluoroacetate)

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(809a) Following the procedures analogous to examples 705a-1 the hydroxamic acid was obtained and isolated by reverse phase HPLC. LRMS found (M+H) + = 497.

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Example 810

[1(R)]-3-[4-[(2,6-dimethyl-4-

pyridinyl)methoxy]phenyl]-N1-hydroxy-N3-[2-(1Himidazol-4-yl)ethyl]-\alpha1-(2-methylpropyl)-2-oxo-1,3pyrrolidinediacetamide bis(trifluoroacetate)

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(810a) Following the procedures analogous to examples 705a-1 the hydroxamic acid was obtained and isolated by reverse phase HPLC. LRMS found (M+H) + = 577.

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Example 811

[1(R)]-3-[4-[(2,6-dimethyl-4-

pyridinyl)methoxy|phenyl]-N1-hydroxy-α1-(2methylpropyl)-2-oxo-N3-[1-(phenylmethyl)-4piperidinyl]-1,3-pyrrolidinediacetamide
bis(trifluoroacetate)

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(811a) Following the procedures analogous to examples 705a-1 the hydroxamic acid was obtained and isolated by reverse phase HPLC. LRMS found (M+H) + = 656.

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Example 812

[1(R)]-N3-[2-(dimethylamino)ethyl]-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N1-hydroxy-\alpha1-(2-methylpropyl)-2-oxo-1,3-pyrrolidinediacetamide bis(trifluoroacetate)

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(812a) Following the procedures analogous to examples 705a-1 the hydroxamic acid was obtained and isolated by reverse phase HPLC. LRMS found (M+H)+=554.

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Example 813

[1(R)]-3-[4-[(2,6-dimethyl-4-

pyridinyl)methoxy]phenyl]-N1-hydroxy-N3-(4-hydroxyphenyl)-\alpha1-(2-methylpropyl)-2-oxo-1,3-pyrrolidinediacetamide mono(trifluoroacetate)

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(813a) Following the procedures analogous to examples 705a-1 the hydroxamic acid was obtained and isolated by reverse phase HPLC. LRMS found (M+H) + = 575.

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Example 814

[1(R)]-3-[4-[(2,6-dimethyl-4-

pyridinyl)methoxy]phenyl]-N3-hydroxy-α1-(2methylpropyl)-2-oxo-N3-2-thiazolyl-1,3pyrrolidinediacetamide mono(trifluoroacetate)

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(814a) Following the procedures analogous to examples 705a-1 the hydroxamic acid was obtained and isolated by reverse phase HPLC. LRMS found (M+H)+=566

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Example 815

[1(R)]-3-[4-[(2,6-dimethyl-4-

pyridinyl)methoxy]phenyl]-N3-hydroxy-3-(2-hydroxyethyl)-α1-(2-methylpropyl)-2-oxo-1-pyrrolidineacetamide mono(trifluoroacetate)

(815a) Following the procedures analogous to examples 780 the hydroxamic acid was obtained and isolated by reverse phase HPLC. LRMS found (M+H) + = 470.

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Example 816

[1(R)]-3-[4-[(2,6-dimethyl-4-

pyridinyl)methoxy[phenyl]-N3-(4,5-dimethyl-2thiazolyl)-N1-hydroxy-α1-(2-methylpropyl)-2-oxo-1,3pyrrolidinediacetamide mono(trifluoroacetate)

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(816a) Following the procedures analogous to examples 705a-1 the hydroxamic acid was obtained and isolated by reverse phase HPLC. LRMS found (M+H)+=594.

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Example 817

[1(R)]-3-[4-[(2,6-dimethyl-4-

pyridinyl)methoxy[phenyl]-N1-hydroxy-N3-1H-indazol-5yl-α1-(2-methylpropyl)-2-oxo-1,3pyrrolidinediacetamide mono(trifluoroacetate)

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(817a) Following the procedures analogous to examples 705a-1 the hydroxamic acid was obtained and isolated by reverse phase HPLC. LRMS found (M+H) + = 599.

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Example 818

[1(R)]-3-[4-[3,5-bis(trifluoromethyl)phenoxy]phenyl]N1-hydroxy-\alpha1-(2-methylpropyl)-2-oxo-N3-2-thiazolyl1,3-pyrrolidinediacetamide

30 (818a) Following the procedures analogous to examples 705a-g, 61a, and 705i-l the hydroxamic acid was obtained and isolated by reverse phase HPLC. LRMS found (M+H)+ = 659.

TABLE 1

$$HO \stackrel{H}{\stackrel{R^1}{\longrightarrow}} N \stackrel{O}{\stackrel{R^2}{\longrightarrow}} R^2$$

MS 367 291 319 333 359 423 1 393 381 1 395
291 319 333 359 423 1 393 381
319 333 359 423 1 393 381
333 359 423 1 393 381
359 423 1 393 381
423 393 381
393 381
393 381
381
1
1
395
317
392
332
412
412
412
417
277
277
368
368
300
368
317
261
233
247
247
277
267
289
295
337
287
523

				
32	Me	Me	4-[[3,5-	503
			bis(trifluoromethyl)phenyl]	
			methoxy]phenyl	
33	Me	Me	4-[(3,5-dichlorophenyl)	435
			methoxy]phenyl	
34	Me	Me	4-[(2-methyl-1-	455
			naphthalenyl)methoxy]phenyl	
35	Me	Me	4-[(3,5-dimethoxyphenyl)	427
			methoxy]phenyl	1 '
3.6	Me	Me	4-[[4-chloro-2-	520
i			(trifluoromethyl)-6-	320
i		1	quinolinyl]methoxy]phenyl	
37	Me	Me	4-[[4-(1,2,3-thiadiazol-4-	451
· ·		1	yl)phenyl]methoxy]phenyl	421
38	Me	Me	4-([1,1'-biphenyl]-2-	442
30	me	Me		443
-30	Ma		ylmethoxy)phenyl	
39	Me	Me	4-[(2,6-dichloro-4-	436
			pyridinyl)methoxy]phenyl	
40	Me	Me	4-(1H-benzotriazol-1-	408
			ylmethoxy)phenyl	
41	Me	Me	4-[(4,6-dimethyl-2-	397
	·		pyrimidinyl)methoxy]phenyl	
42	Me	Me	4-(1,3-benzodioxol-5-	411
			ylmethoxy)phenyl	
43	Me	Me	4-[(2-chloro-6-ethoxy-4-	446
İ			pyridinyl)methoxy]phenyl	
44	Me	Me	4-(4-	420
1			quinolinylmethoxy)phenyl	120
45	Me	Me	4-[(4,5-dimethyl-2-	402
		1	thiazolyl)methoxy]phenyl	402
46	Me	Me	4-[(2,6-dimethyl-4-	398
	ric	1	pyridinyl)methoxy]phenyl	398
47	Me	Me	4-[(3-methyl-5-	426
3 /	Me	· me	nitrophenyl)methoxylphenyl	426
48	Me	Me	4-[(3-amino-5-	206
40	Me	Me	methylphenyl)methoxy]phenyl	396
49	Ma		4-[[3-(acetylamino)-5-	
49	Me	Me		438
			methylphenyl]methoxy]phenyl	
50	Me	Me	4-[[3-[[[(t-butoxy)	553
1			carbonyl]amino]acetyl]amino]	
			-5-	
			methylphenyl]methoxy]phenyl	
51	Me	Me	4-[[3-[(aminoacetyl)amino]-	455
1			5-	
			methylphenyl]methoxy]phenyl	
52	Me	Me	4-[[3-[[[[[(t-butoxy)	634
			carbonyl]amino]acetyl]amino]	
			acetyl]amino]-5-	
			methylphenyl]methoxy]phenyl	
53	Me	Me	4-[[3-[[[(aminoacetyl)	512
l			amino]acetyl]amino]-5-	-
			methylphenyl]methoxy]phenyl	
54	Me	Me	4-[[3-[[(4-morpholinyl)	509
		1	carbonyl]amino]-5-	505
1			methylphenyl]methoxy]phenyl	
55			see structure at bottom	479
56	Me	Me	[1,1'-biphenyl]-4-yl	
	rie.	ne ne	[T,T -DIDHGUAT]-4-AT	339_
	17-	7.	0	
57	Me	Me	2'-methyl[1,1'-biphenyl]-4- yl	353

Second S					
Section	58	Me	Me		353
Me	59	Me	Me	3',4'-dimethoxy[1,1'-	397
61 Me Me 4-(4-methylphenoxy)phenyl 367 62 Me Me Me 4-phenoxyphenyl 353 63 Me Me Me 4-(2-methylphenoxy)phenyl 367 64 Me Me Me 4-(2-methylphenoxy)phenyl 367 65 Me Me Me 4-(3,5-) 66 Me Me 4-(3,4-) 67 Me Me Me 4-(1,3-benzodioxol-5-) 67 Me Me Me 4-(3-(ir-Pr)phenoxy)phenyl 395 68 Me Me Me 4-(3-(ir-Pr)phenoxy)phenyl 383 69 Me Me Me 4-(3-methoxyphenoxy)phenyl 385 69 Me Me Me 4-(3,5-) 61 Me Me 4-(3,5-) 62 Me Me Me 4-(3,5-) 63 Me Me Me 4-(3,5-) 64 Me Me Me 4-(3,5-) 65 Me Me Me 4-(3,4,5-) 66 Me Me Me 4-(3,5-) 67 Me Me Me 4-(3,5-) 68 Me Me Me 4-(3,5-) 69 Me Me Me 4-(1,5,5-) 69 Me Me Me 4-(1,5-) 69 Me Me Me 4-(1,5-) 69 Me Me Me 4-(1,5-) 60 Me Me Me 4-(1,5-) 60 Me Me Me 4-(1,0-) 61 Me Me Me 4-(1,0-) 62 Me Me Me 4-(1,0-) 63 Me Me Me 4-(1,0-) 64 Me Me 4-(1,0-) 64 Me Me 4-(1,0-) 65 Me Me Me 4-(1,0-) 65 Me Me Me 4-(1,0-) 66 Me Me Me 4-(1,0-) 67 Me	60	Me	Me	2'-(trifluoromethyl)[1,1'-	405
Me	61	Me	Me	···	367
Me	62	Me	Me		
Me	63	Me	Me		
Me	64	Me	Me	4-(3,5-	
Me	65	Me	Me	4-(3,4-	413
Me	66	Me	Me	4-(1,3-benzodioxol-5-	397
68 Me Me 4-(3-methoxyphenoxy)phenyl 383 69 Me Me 4-(3-thienyloxy)phenyl 359 70 Mc Me 4-(3,4,5- 443 1 Me Me 4-(3,5-bis(trifluoromethyl) 491 phenoxylphenyl 491 491 491 72 Me Me 4-(1-naphthalenyloxy)phenyl 405 73 Me Me 4-(3-[(hydroxyimino) appenyl) 398 73 Me Me 4-(4-(1-(hydroxyimino) ethyl) appenyl 410 74 Me Me 4-(4-(1-(hydroxyimino) ethyl) appenyl 410 75 Me Me 4-(4-(1-(hydroxyimino) ethyl) appenyl 410 75 Me Me 4-(4-(1-(hydroxyimino) ethyl) appenyl 410 76 Me Me 4-(4-(1-(1-(hydroxyimino) ethyl) appenyl 411 76 Me Me 4-(3-(5-(abpenyl) phenyl 431 76 Me Me 4-(3-(3-(abpenyl)phenyl 412 7	67	Me	Me		395
Me		Me	Me		
To Me Me		· · · · · · · · · · · · · · · · · · ·	+		
Trimethoxyphenoxy) phenyl					"
Me					443
Me	71	Me	Me	4-[3,5-bis(trifluoromethyl)	491
Me	72	Me	Me		405
Me	73	Me	Me		
phenoxy]phenyl					
Me	74	Me	Me		410
76 Me Me 4-(3,5-dibromophenoxy)phenyl 510 77 Me Me 4-[3- 412 78 Me Me 4-(4-nitrophenoxy)phenyl 398 79 Me Me 4-methylphenyl 275 80 Me Me 4-[(2,6-dimethyl-4- 398 80 Me Me 4-[(2,6-dimethyl-4- 398 81 Me Me 4-[(4-qimethyl-4- 398 81 Me Me 4-[(4-qimethyl-4- 398 82 Me Me 4-[(4-qimethyl-4- 398 83 Me Me 4-[(4-qimethyl-4- 398 84 Me Me 4-[(phenylaminolylamin	75	Me	Me	4-([1,1'-biphenyl]-4-	431
Me	76	Me	Me		510
78 Me Me 4-(4-nitrophenoxy) phenyl 398 79 Me Me 4-methylphenyl 275 80 Me Me 4-[(2,6-dimethyl-4- 398 80 Me Me 4-[(2,6-dimethyl-4- 398 81 Me Me 4-[(1-4-dimethyl-4- 420 81 Me Me 4-nitrophenyl 306 82 Me Me 4-[(phenylcarbonyl) 380 83 Me Me 4-[(phenylcarbonyl) 380 84 Me Me 4-[(phenylcarbonyl) 380 85 Me Me 4-[(phenylcarbonyl) 440 85 Me Me 4-[(phenylcarbonyl) 419 86 Me Me 4-[(lophenylcarbonyl) 419 87 Me Me 4-[(1-naphthalenyl- 440 88 Me Me 4-[(4-quinolinyl- 419 89 H Me 4-[(3,5-dimethylphenyl) 405		Me	Me	4-[3-	
79 Me Me 4-methylphenyl 275 80 Me Me 4-[(2,6-dimethyl-4- 398 pyridinyl) oxy]methyl]phenyl 398 pyridinyl) oxy]methyl]phenyl 81 Me Me 4-[(4- 420 quinolinyloxy)methyl]phenyl 420 quinolinyloxy)methyl]phenyl 306 82 Me Me 4-nitrophenyl 306 83 Me Me 4-[(phenylcarbonyl) 380 aminolphenyl 84 Me Me 4-[(phenylsulfonyl) 440 aminolphenyl 85 Me Me 4-[(phenylsulfonyl) 419 aminolphenyl 86 Me Me 4-[(1-naphthalenyl- 440 aminolphenyl 440 aminolphenyl 87 Me Me 4-[(4-quinolinyl- 419 aminolphenyl 419 aminolphenyl 88 Me Me 4-[(3,5-dimethoxyphenyl) 426 amethyl]aminolphenyl 89 H Me 4-[(3,5-dimethylphenyl) 405 amethyl]aminolphenyl 90 H Me 4-[(2,6-dichloro-4- 424 amethyl)aminolphenyl 424 amethyllomethoxylphenyl 91 H Me 4-[(2,	78	Me	Me		398
80 Me Me 4-[(2,6-dimethyl-4- ypridinyl) oxy]methyl]phenyl 398 81 Me Me 4-[(4- 420 quinolinyloxy)methyl]phenyl 420 82 Me Me 4-nitrophenyl 306 83 Me Me 4-[(phenylcarbonyl) 380 amino]phenyl 380 amino]phenyl 84 Me Me 4-[(phenylsulfonyl) 440 amino]phenyl 440 amino]phenyl 85 Me Me 4-[(phenylamino) phenyl 419 amino]phenyl 86 Me Me 4-[(1-naphthalenyl- 440 amethyl) amino]phenyl 419 amethyl) amino]phenyl 87 Me Me 4-[(3,5-dimethoxyphenyl) 426 amethyl) amino]phenyl 426 amethyl]amino]phenyl 88 Me Me 4-[(3,5-dimethoxyphenyl) 405 amethylphenyl) 405 amethoxylphenyl 405 amethoxylphenyl 90 H Me 4-[(2,6-dichloro-4- 424 amethoxylphenyl) 426 amethylphenyl 424 amethoxylphenyl 91 H Me 4-[(2,6-dichloro-4- 424 amethoxylphenyl 426 amethoxylphenyl 426 amethoxylphenyl			+		
			 		
81 Me Me 4-[(4- quinolinyloxy)methyl]phenyl 420 82 Me Me 4-nitrophenyl 306 83 Me Me 4-[(phenylcarbonyl) association aminol phenyl 380 84 Me Me 4-[(phenylsulfonyl) association aminol phenyl 440 85 Me Me 4-[(phenylaminol phenyl 419 86 Me Me 4-[(1-naphthalenyl- association aminol phenyl 440 87 Me Me 4-[(4-quinolinyl- association aminol phenyl 419 88 Me Me 4-[(3,5-dimethoxyphenyl) association aminol phenyl 426 89 H Me 4-[(3,5-dimethylphenyl) association aminol phenyl 405 89 H Me 4-[(3,5-dimethylphenyl) association aminol phenyl 405 90 H Me 4-[(2,6-dichloro-4- association aminol phenyl aminol phenyl aminol phenyl 405 90 H Me 4-[(3,5-dimethylphenyl aminol phenyl aminol ph	• •				330
82 Me Me 4-nitrophenyl 306 83 Me Me 4-[(phenylcarbonyl) 380 84 Me Me 4-[(phenylsulfonyl) 440 85 Me Me 4-[(phenylsulfonyl) 419 86 Me Me 4-[(phenylsulfonyl) 419 86 Me Me 4-[(1-naphthalenyl- 440 87 Me Me 4-[(4-quinolinyl- 419 88 Me Me 4-[(3,5-dimethoxyphenyl) 426 89 H Me 4-[(3,5-dimethylphenyl) 405 89 H Me 4-[(2,6-dichloro-4- 424 90 H Me 4-[(2,6-dichloro-4- 424 pyridinyl)methoxylphenyl 4-[(2,6-dimethyl-4- 384	81	Me	Me	4-[(4-	420
83 Me Me 4-[(phenylcarbonyl) amino]phenyl 380 84 Me Me 4-[(phenylsulfonyl) amino]phenyl 440 85 Me Me 4-[(phenylamino) 419 86 Me Me 4-[(1-naphthalenyl- 440 87 Me Me 4-[(4-quinolinyl- 419 88 Me Me 4-[(3,5-dimethoxyphenyl) 426 89 H Me 4-[(3,5-dimethoxyphenyl) 405 90 H Me 4-[(2,6-dichloro-4- 424 pyridinyl)methoxylphenyl 424 91 H Me 4-[(2,6-dimethyl-4- 384	82	Me	Me		306
84 Me Me 4-[(phenylsulfonyl) amino] phenyl 85 Me Me 4-[[(phenylamino) carbonyl] amino] phenyl 86 Me Me 4-[(1-naphthalenyl- 440 methyl) amino] phenyl 87 Me Me 4-[(4-quinolinyl- 419 methyl) amino] phenyl 88 Me Me 4-[(3,5-dimethoxyphenyl) 426 methyl] amino] phenyl 89 H Me 4-[(3,5-dimethylphenyl) 405 methoxy] phenyl 90 H Me 4-[(2,6-dichloro-4- 424 pyridinyl) methoxy] phenyl 91 H Me 4-[(2,6-dimethyl-4- 384	83	Me	Me	4-[(phenylcarbonyl)	
85 Me Me 4-[[(phenylamino) carbonyl] amino] phenyl 419 86 Me Me 4-[(1-naphthalenyl- attornol) phenyl 440 87 Me Me 4-[(4-quinolinyl- attornol) phenyl 419 88 Me Me 4-[(3,5-dimethoxyphenyl) attornol phenyl 426 89 H Me 4-[(3,5-dimethylphenyl) attornol phenyl 405 90 H Me 4-[(2,6-dichloro-4- attornol phenyl) attornol phenyl 424 91 H Me 4-[(2,6-dimethyl-4- attornol phenyl) attornol phenyl 424 91 H Me 4-[(2,6-dimethyl-4- attornol phenyl) attornol phenyl 424	84	Me	Me	4-[(phenylsulfonyl)	440
86 Me Me 4-[(1-naphthalenyl-methyl) amino]phenyl 440 87 Me Me 4-[(4-quinolinyl-methyl) amino]phenyl 419 88 Me Me 4-[(3,5-dimethoxyphenyl) amino]phenyl 426 89 H Me 4-[(3,5-dimethylphenyl) amino]phenyl 405 90 H Me 4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl 91 H Me 4-[(2,6-dimethyl-4-384	85	Me	Me	4-[[(phenylamino)	419
87 Me Me 4-[(4-quinolinyl- methyl) amino]phenyl 419 88 Me Me 4-[(3,5-dimethoxyphenyl) methyl] amino]phenyl 426 89 H Me 4-[(3,5-dimethylphenyl) methoxy]phenyl 405 90 H Me 4-[(2,6-dichloro-4- pyridinyl)methoxy]phenyl 424 91 H Me 4-[(2,6-dimethyl-4- 384	86	Me	Me	4-[(1-naphthalenyl-	440
88 Me Me 4-[[(3,5-dimethoxyphenyl) methyl] amino]phenyl 426 89 H Me 4-[(3,5-dimethylphenyl) methoxy]phenyl 405 90 H Me 4-[(2,6-dichloro-4- pyridinyl)methoxy]phenyl 424 91 H Me 4-[(2,6-dimethyl-4- 384	87	Me	Me	4-[(4-quinolinyl-	419
89 H Me 4-[(3,5-dimethylphenyl) methoxy]phenyl 405 90 H Me 4-[(2,6-dichloro-4- pyridinyl)methoxy]phenyl 424 91 H Me 4-[(2,6-dimethyl-4- 384	88	Me	Me	4-[[(3,5-dimethoxyphenyl)	426
90 H Me 4-[(2,6-dichloro-4- 424 pyridinyl)methoxy]phenyl 91 H Me 4-[(2,6-dimethyl-4- 384	89	Н	Ме	4-[(3,5-dimethylphenyl)	405
91 H Me 4-[(2,6-dimethyl-4- 384	90	Н	Me	4-[(2,6-dichloro-4-	424
	91	Н	Ме	4-[(2,6-dimethyl-4-	384

92	i-Pr	Me	4-(4-	446
93	i-Pr	Me	quinolinylmethoxy)phenyl 4-(phenylmethoxy)phenyl	395
94	i-Pr	Me	4-[(2,6-dimethyl-4-	426
24		1	pyridinyl)methoxy]phenyl	420
95	i-Bu	Me	4-[(2,6-dimethyl-4-	440
			pyridinyl)methoxylphenyl	440
96	i-Bu	Me	4-[(2,6-dichloro-4-	479
			pyridinyl)methoxy]phenyl	
97	i-Bu	Me	4-[[3,5-bis(trifluoromethyl)	454
			phenyl]methoxy]phenyl	
98	i-Bu	Me	4-[(3,5-dichlorophenyl)	479
			methoxy]phenyl	
99	i-Bu	Me	3-(phenylmethoxy)propyl	375
101	i-Bu	Me	2-methyl-4-	423
	ļ		(phenylmethoxy)phenyl	
102	i-Bu	Me	4-[(2,6-dichloro-4-	492
			pyridinyl)methoxy]-2-	
	 		methylphenyl	
103	i-Bu	Me	2-methyl-4-(2-	475
104			naphthalenylmethoxy)phenyl	
104	i-Bu	Me	2-methyl-4-(4-	426
105	i-Bu	Me	pyridinylmethoxy)phenyl 4-[(2,6-dimethyl-4-	
105	1-Bu	Me	pyridinyl)methoxyl-2-	454
			methylphenyl	
106	CH ₃ SCH ₂ CH ₂	Me	4-(phenylmethoxy)phenyl	427
107	1		see structure at bottom	492
108	CH ₃ SO ₂ -	Me	4-[3,5-bis(trifluoromethyl)	581
	CH ₂ CH ₂		phenoxy]phenyl	201
109	CH ₃ SO ₂ -	Me	4-(3,5-dibromophenoxy)phenyl	603
	CH ₂ CH ₂			
110	CH ₃ SO ₂ -	Me	4-[(2,6-dichloro-4-	528
	CH ₂ CH ₂		pyridinyl)methoxy]phenyl	
111	CH ₃ SO ₂ -	Me	4-[(2,6-dimethyl-4-	490
	CH ₂ CH ₂		pyridinyl)methoxy]phenyl	
112	CH ₃ SO ₂ -	Me	4-(4-	512
	CH ₂ CH ₂		quinolinylmethoxy)phenyl	
113			see structure at bottom	379
114	(4-HO-	Me	4-(phenylmethoxy)phenyl	395
	phenyl)CH2			
115	HOCH ₂ CH ₂	Me	4-[(2,6-dichloro-4-	466
			pyridinyl)methoxy]phenyl	
116	4-	Me	4-[(2,6-dichloro-4-	593
	[(CH ₃) ₃ CO-		pyridinyl)methoxy]phenyl	
	$C(O)NH_2$			
	butyl			
117	4-	Me	4-[(2,6-dichloro-4-	495
	aminobutyl		pyridinyl)methoxy]phenyl	
118	4-(acetyl-	Me	4-[(2,6-dichloro-4-	535
110	amino)butyl		pyridinyl)methoxy]phenyl	
119	4-[3-	Me	4-[(2,6-dichloro-4-	600
	pyridinyl- C(O)NH]		pyridinyl)methoxy]phenyl	
	butyl		1	
	~~~,1		L-,-,-,-,-	

120   4-[4-   Me					
morpholinyl   butyl   butyl	120	4-[4-	Me	4-[(2,6-dichloro-4-	630
C(0) NH  butyl   121   4-[CH ₃ SO ₂ - amino butyl   2- (2,6-dichloro-4- byridinyl)methoxy phenyl   122   4-(acetyl- amino)butyl   2- (1,6-dimethyl-4- byridinyl)methoxy phenyl   123   4- (1,6-dimethyl-4- byridinyl)methoxy phenyl   124   4-		morpholinyl		pyridinyl)methoxy]phenyl	
Dutyl					
121					
amino buty	121	<del></del>	Me	4-1(2.6-dichloro-4-	595
122   4-(acetyl-amino) butyl   Me	121		110		
amino) butyl	100	<del></del>			
123	122		Me		497
[(CH ₃ ) ₃ CO- C(O)NH] butyl 124			<del> </del>		
C(O)NH  buty    124	123	1	Me		555
Duty		[(CH ₃ ) ₃ CO-		pyridinyl)methoxy]phenyl	
Duty		C(O)NH]			
124					
aminobutyl	124		Me	4-[(2.6-dimethy]-4-	455
125			1.0		#32
H2NCH2C(0)	125		Mo		F10
Output	123	1 - 1	Me	- · · ·	512
126				pyridinyl/methoxylphenyl	
amino   butyl					
127	126		Me	_	626
[(CH ₃ ) ₃ CO- C(O)NH] butyl  128		amino)butyl		phenyl]methoxy]phenyl	
C(0)NH  buty1	127	4-	Me	4-(3,5-dibromophenoxy)phenyl	=668
C(0)NH  buty1		[(CH ₃ ) ₃ CO-			
Duty1					
128					
aminobutyl   2-	120		Ma	4-/2 5-dibromonhonous) phonys	570
129	120	_	Me	4-(3,3-dibromophenoxy)phenyi	570
[(CH ₃ ) ₃ CO- C(O)NH] ethyl  130	100			4.570.6.31.33	
C(0)NH  ethyl   2	129		Me		565
ethyl				pyridinyl)methoxy[phenyl	
130   2-					
aminoethyl         pyridinyl)methoxy]phenyl           131         2-(acetyl-amino)ethyl         Me         4-[(2,6-dichloro-4-apyridinyl)methoxy]phenyl         508           132         2- Me         4-[(2,6-dimethyl-4-apyridinyl)methoxy]phenyl         527           133         2- Me         4-[(2,6-dimethyl-4-apyridinyl)methoxy]phenyl         427           134         2-[3- Me         4-[(2,6-dimethyl-4-apyridinyl)methoxy]phenyl         523           135         2-[4- Me         4-[(2,6-dimethyl-4-apyridinyl)methoxy]phenyl         540           135         2-[4- Me         4-[(2,6-dimethyl-4-apyridinyl)methoxy]phenyl         540           136         2- Me         4-[(2,6-dimethyl-4-apyridinyl)methoxy]phenyl         584           136         2- Me         4-[(2,6-dimethyl-4-apyridinyl)methoxy]phenyl         584		ethyl			
131   2-(acetyl-amino) ethyl   2-   Me	130	2-	Me	4-[(2,6-dichloro-4-	467
131   2-(acetyl-amino) ethyl   2-   Me		aminoethyl		pyridinyl)methoxy]phenyl	
amino) ethyl         pyridinyl) methoxy] phenyl           132         2-         Me         4-[(2,6-dimethyl-4- pyridinyl) methoxy] phenyl         527           [(CH ₃ ) 3CO- C(0) NH] ethyl         Me         4-[(2,6-dimethyl-4- pyridinyl) methoxy] phenyl         427           133         2- Me         4-[(2,6-dimethyl-4- pyridinyl) methoxy] phenyl         523           134         2-[3- pyridinyl- pyridinyl) methoxy] phenyl         523           135         2-[4- morpholinyl C(0) NH] ethyl         Me         4-[(2,6-dimethyl-4- pyridinyl) methoxy] phenyl         540           136         2- Me         4-[(2,6-dimethyl-4- pyridinyl) methoxy] phenyl         584           136         2- pyridinyl) methoxy] phenyl         584	131		. Me		508
132   2-					300
[(CH ₃ ) ₃ CO- C(O)NH] ethyl  133	132		Me	( <del></del>	527
C(O)NH] ethyl  133	132		He		327
ethyl           133         2-         Me         4-[(2,6-dimethyl-4- 427 427 427 427 427 427 427 427 427 427				pyrramyr/mechoxy/phenyr	
133   2-					
aminoethyl         pyridinyl)methoxylphenyl           134         2-[3- pyridinyl- pyridinyl- pyridinyl)methoxylphenyl         523           135         2-[4- morpholinyl C(O)NH] ethyl         Me         4-[(2,6-dimethyl-4- pyridinyl)methoxylphenyl         540           136         2- (O)NH] ethyl         Me         4-[(2,6-dimethyl-4- pyridinyl)methoxylphenyl         584           136         2- (CH ₃ ) ₃ CO- pyridinyl)methoxylphenyl         584					
134	133	1 - 1	Me		427
pyridinyl- C(0)NH] ethyl  135				· · · · · · · · · · · · · · · · · · ·	
C(O)NH] ethyl  135	134	2-[3-	Me	4-[(2,6-dimethyl-4-	523
C(O)NH] ethyl  135		pyridinyl-		pyridinyl)methoxy]phenyl	
ethyl         4-[(2,6-dimethyl-4-morpholinyl c(0)NH] ethyl         540           136         2- (CH ₃ ) ₃ CO- (CH ₃ ) ₃ CO- (CH ₃ ) ₃ CO- (CH ₃ )         Me         4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl         584					
135					
morpholinyl	135		Me	4-[(2.6-dimethvl-4-	540
C(O)NH] ethyl  136					240
ethyl         4-[(2,6-dimethyl-4- 584 [(CH ₃ ) ₃ CO- pyridinyl)methoxy]phenyl				£1 = = = = 1, = 1, 1 prioriy 1	
136 2- Me 4-[(2,6-dimethyl-4- 584 pyridinyl)methoxy]phenyl					
[(CH ₃ ) ₃ CO- pyridinyl)methoxy]phenyl	126		V-	A [/2 6 di	
	136		me		584
C(O)NHCH2-		1		pyriainyi)methoxy)phenyl	
		C(0) NHCH ₂ -			
C(O)NH]		C(O)NH]			
ethyl					
137 2- Me 4-[(2,6-dimethyl-4- 484	137		Me	4-[(2.6-dimethy]-4-	484
[H ₂ NCH ₂ C(O)] pyridinyl)methoxylphenyl	~~ .	- 1	•••		404
		1-4/44-44/-10/		English to the control of the contro	
1 -NHIGTHYI I		-NH]ethyl		ŀ	

138					
C(O)NHCH2-C(O)NH  etchyl   C(O)NH  etchyl   C(O)NH    Ethyl   S4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl   S41   S41   S41   S41   S42   S43   S43   S43   S43   S44	138	_	Me		641
C(O)NH   ethyl				pyridinyl)methoxy[phenyl	
ethyl		C(O)NHCH2-			
139   2-		C(O)NH]			ł
[H ₃ NCH ₂ C(0) - NH)		ethyl			
[H ₃ NCH ₂ C(0) - NH)	139	2-	Me	4-[(2,6-dimethyl-4-	541
-NHCH ₂ C(0)- NH ethyl  140 phenyl- CH ₂ CCH ₂ 141 HOCH ₂ Me  4-(phenylmethoxy)phenyl 473  142 1- ((CH ₃ ) ₃ CO- C(0) -4- piperidinyl 143 4- 1-(CH ₃ SO ₂ )- 4- piperidinyl 144 1-(CH ₃ SO ₂ )- piperidinyl 145 1-(12- piperidinyl 146 1-(12- piperidinyl 147 4- piperidinyl 148 1- ((CH ₃ ) ₃ CO- C(0) -4- piperidinyl 149 1-(CH ₃ SO ₂ )- Piperidinyl 140 1-(12- Piperidinyl 141 1-(12- Piperidinyl 142 1-(12- Piperidinyl 143 1-(12- Piperidinyl 144 1-(12- Piperidinyl 145 1-(12- Piperidinyl 146 1-(12- Piperidinyl 147 1-(13- Piperidinyl 148 1- Piperidinyl 149 1-(14- Piperidinyl 149 1-(14- Piperidinyl 149 1-(14- Piperidinyl 149 1-(14- Piperidinyl 150 1-2(2- Piperidinyl 151 1-(2- Piperidinyl 152 1-Piperidinyl 153 1-(1-Pi)-4- Piperidinyl 154 1-(12- Piperidinyl 155 1-(12- Piperidinyl 155 1-(12- Piperidinyl 156 1-(12- Piperidinyl 157 1-(12- Piperidinyl 158 1-(12- Piperidinyl 159 1-(12-Pi)-4- Piperidinyl 150 1-Rethyl-4- Piperidinyl 151 1-(12-Pi)-4- Piperidinyl 152 1-methyl-4- Piperidinyl 153 1-(1-Pi)-4- Piperidinyl 154 1-(12-Pi)-4- Piperidinyl 155 1-(1-Pi)-4- Piperidinyl 156 1-(1-Pi)-4- Piperidinyl 157 1-(1-Pi)-4- Piperidinyl 158 1-(1-Pi)-4- Piperidinyl 159 1-(1-Pi)-4- Piperidinyl 150 1-Bu  Amino A-((2,6-dimethyl)-4- Piperidinyl 151 1-(1-Pi)-4- Piperidinyl 152 1-methyl-4- Piperidinyl 153 1-(1-Pi)-4- Piperidinyl 154 1-(1-Pi)-4- Piperidinyl 155 1-(1-Pi)-4- Piperidinyl 156 1-(1-Pi)-4- Piperidinyl 157 1-(1-Pi)-4- Piperidinyl 158 1-(1-Pi)-4- Piperidinyl 159 1-(1-Pi)-4- Piperidinyl 150 1-Bu  Amino A-((2,6-dimethyl)-4- Piperidinyl 154 1-(1-Pi)-4- Piperidinyl 155 1-(1-Pi)-4- Piperidinyl 156 1-(1-Pi)-4- Piperidinyl 157 1-(1-Pi)-4- Piperidinyl 158 1-(1-Pi)-4- Piperidinyl 159 1-(1-Pi)-4- Piperidinyl 150 1-(1-		[H ₂ NCH ₂ C(O)			
NH ethyl			İ		
140   phenyl-   Me		_			1
CH3OCH2	140		74-	1 (-h	450
141   HOCH2   Me	140		Me	4-(phenyimethoxy)phenyi	4/3
The content of the					<del> </del>
142	141	HOCH ₂	Me		437
[(CH ₃ ) ₃ CO- C(O)]-4- piperidinyl  144					
C(0)   -4-     piperidinyl	142	-	Me	4-(4-	589
Diperidinyl		[(CH ₃ ) ₃ CO-		quinolinylmethoxy)phenyl	1
143		C(O)]-4-			1
143		piperidinyl			
piperidinyl	143	T	Me	4-(4-	489
144		piperidinvl		· · · · · · · · · · · · · · · · · · ·	105
Quinolinylmethoxy)phenyl	144		Me		567
Diperidinyl   145   1-[(2-	144		1110	· ·	367
145				damoim in a memory bueny i	
furanyl   C(O)   -4	1.45				
C(O)   -4	145		Me Me		583
piperidinyl   146				quinolinylmethoxy)phenyl	
146					
[(CH ₃ ) ₃ CO- C(O)]-4- piperidinyl  147					
C(0)]-4-   piperidinyl	146	1 -	Me		567
Diperidinyl		[(CH ₃ ) ₃ CO-		pyridinyl)methoxy]phenyl	]
147			ļ		÷
piperidinyl   pyridinyl)methoxy]phenyl		piperidinyl			
148	147	4-	Me	4-[(2,6-dimethyl-4-	467
CCH ₃ C(O)) - 4 -	_	piperidinyl		pyridinyl)methoxy]phenyl	Ł.
CCH ₃ C(O)) - 4 -	148		Me		525
149   1-(CH ₃ SO ₂ )-   Me   4-[(2,6-dimethyl-4-   545   pyridinyl)methoxy]phenyl   piperidinyl   piperidinyl   pyridinyl)methoxy]phenyl   509   pyridinyl)methoxy]phenyl   510   1-acetyl-4-   Me   4-[(2,6-dimethyl-4-   551   pyridinyl)methoxy]phenyl   551   1-(2,2-   Me   4-[(2,6-dimethyl-4-   551   pyridinyl)methoxy]phenyl   551   pyridinyl   methoxy]phenyl   551   1-methyl-4-   Me   4-[(2,6-dimethyl-4-   481   piperidinyl   pyridinyl)methoxy]phenyl   510   pyridinyl)methoxy]phenyl   510   pyridinyl)methoxy]phenyl   300   i-Bu   amino   4-(2-   463   quinolinylmethoxy)phenyl   301   Me   amino   4-[(3,5-dimethylphenyl)   398   methoxy]phenyl   302   Me   EtNHC(O)NH   4-[(3,5-dimethylphenyl)   491   methoxy]phenyl   303   Me   CH ₃ SO ₂ NH   4-[(3,5-dimethylphenyl)   498   303   Me   CH ₃ SO ₂ NH   4-[(3,5-dimethylphenyl)   498   303   Me   CH ₃ SO ₂ NH   4-[(3,5-dimethylphenyl)   498   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305		(CH ₃ C(0))-			
149					}
149		piperidinyl			
A-	149		Me	4-[(2.6-dimethy]-4-	5.45
piperidinyl   150   1-acetyl-4-   Me   4-[(2,6-dimethyl-4-   509   piperidinyl   pyridinyl)methoxylphenyl   511   1-(2,2-   Me   4-[(2,6-dimethyl-4-   551   pyridinyl)methoxylphenyl   551   pyridinyl)methoxylphenyl   551   pyridinyl   methoxylphenyl   551   1-methyl-4-   Me   4-[(2,6-dimethyl-4-   piperidinyl   pyridinyl)methoxylphenyl   153   1-(i-Pr)-4-   Me   4-[(2,6-dimethyl-4-   510   pyridinyl)methoxylphenyl   300   i-Bu   amino   4-(2-   463   quinolinylmethoxylphenyl   398   methoxylphenyl   398   methoxylphenyl   398   methoxylphenyl   398   302   Me   EtNHC(O)NH   4-[(3,5-dimethylphenyl)   491   methoxylphenyl   398   303   Me   CH3SO2NH   4-[(3,5-dimethylphenyl)   498   303   Me   CH3SO2NH   4-[(3,5-dimethylphenyl)   498   304   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305   305	147		ne		343
1-acetyl-4- piperidinyl   Me		_		pyrramyr/methoxy/phenyr	ŀ
piperidinyl   pyridinyl)methoxy]phenyl	150			4 5 (2 6 2) 11 3 4	
151	150		ме		509
dimethyl-1-   oxopropyl)-   4-   piperidinyl   Me   4-[(2,6-dimethyl-4-   piperidinyl   methoxy]phenyl   481     152   1-methyl-4-   piperidinyl   Me   4-[(2,6-dimethyl-4-   piperidinyl   pyridinyl)methoxy]phenyl   510     300   i-Bu   amino   4-[(2,6-dimethyl-4-   piperidinyl   pyridinyl)methoxy]phenyl   398     301   Me   amino   4-[(3,5-dimethylphenyl)   398     302   Me   EtNHC(O)NH   4-[(3,5-dimethylphenyl)   491     303   Me   CH ₃ SO ₂ NH   4-[(3,5-dimethylphenyl)   498					
Oxopropyl) - 4 -	151	1	Me		551
4-				pyridinyl)methoxy]phenyl	
piperidinyl					
152  1-methyl-4-		1			
piperidinyl         pyridinyl)methoxylphenyl           153         1-(i-Pr)-4- Me piperidinyl         4-[(2,6-dimethyl-4- pyridinyl)methoxylphenyl         510           300         i-Bu amino         4-(2- 463 quinolinylmethoxylphenyl)         463 quinolinylmethoxylphenyl           301         Me amino         4-[(3,5-dimethylphenyl) methoxylphenyl)         398 methoxylphenyl           302         Me EtNHC(O)NH         4-[(3,5-dimethylphenyl) methoxylphenyl)         491 methoxylphenyl           303         Me CH3SO2NH         4-[(3,5-dimethylphenyl) dys         498					
piperidinyl   pyridinyl)methoxylphenyl	152		Me		481
153				pyridinyl)methoxy]phenyl	
piperidinyl   pyridinyl)methoxy]phenyl   300   i-Bu   amino   4-(2-   463   quinolinylmethoxy)phenyl   301   Me   amino   4-[(3,5-dimethylphenyl)   398   methoxy]phenyl   302   Me   EtNHC(O)NH   4-[(3,5-dimethylphenyl)   491   methoxy]phenyl   303   Me   CH ₃ SO ₂ NH   4-[(3,5-dimethylphenyl)   498	153	1-(i-Pr)-4-	Me	4-[(2,6-dimethyl-4-	510
300 i-Bu amino 4-(2- 463 quinolinylmethoxy)phenyl 301 Me amino 4-[(3,5-dimethylphenyl) 398 methoxy]phenyl 302 Me EtNHC(O)NH 4-[(3,5-dimethylphenyl) 491 methoxy]phenyl 303 Me CH ₃ SO ₂ NH 4-[(3,5-dimethylphenyl) 498					
	300		amino		463
301 Me amino 4-[(3,5-dimethylphenyl) 398  methoxy]phenyl  302 Me EtNHC(O)NH 4-[(3,5-dimethylphenyl) 491  methoxy]phenyl  303 Me CH ₃ SO ₂ NH 4-[(3,5-dimethylphenyl) 498		_ ~~		·	400
methoxy]phenyl   302   Me	301	Ma	amino		300
302 Me EtNHC(O)NH 4-[(3,5-dimethylphenyl) 491 methoxy]phenyl 303 Me CH ₃ SO ₂ NH 4-[(3,5-dimethylphenyl) 498	J U L	ITE ITE	amino		398
methoxy]phenyl  303 Me CH ₃ SO ₂ NH 4-[(3,5-dimethylphenyl) 498	300		Thatto (O)		
303 Me $CH_3SO_2NH$ 4-[(3,5-dimethylphenyl) 498	302	мe	ETNHC (O) NH		491
methoxy]phenvl	303	Me	CH3SO2NH		498
			<u> </u>	methoxy]phenyl	

304	Me	[(3- pyridinyl) acetyl]NH	4-[(3,5-dimethylphenyl) methoxy]phenyl	517
305	Me	4-pyridinyl -C(O)NH	4-[(3,5-dimethylphenyl) methoxy]phenyl	503
306	Me	amino	4-[(2,6-dichloro-4- pyridinyl)methoxy]phenyl	437
307	Me	4-pyridinyl -C(O)NH	<pre>4-[(2,6-dichloro-4- pyridinyl)methoxy]phenyl</pre>	544
308	Me	EtNHC(O)NH	4-[(2,6-dichloro-4- pyridinyl)methoxy]phenyl	532
309	Me	(CH ₃ ) ₃ CO- C(O)NHCH ₂ - C(O)NH	<pre>4-[(2,6-dichloro-4- pyridinyl)methoxy]phenyl</pre>	618
310	Me	H ₂ NCH ₂ - C (O) NH	4-[(2,6-dichloro-4- pyridinyl)methoxy]phenyl	496
311	Ме	(3- pyridinyl) CH ₂ -C(O)NH	4-[(2,6-dichloro-4- pyridinyl)methoxy]phenyl	558
312	Me	phenylCH ₂ NH C(O)NH	4-[(2,6-dichloro-4- pyridinyl)methoxy]phenyl	594
313	Me	[[(2,4- dimethoxy- phenyl) NHC(O)NH	4-[(2,6-dichloro-4- pyridinyl)methoxy]phenyl	640
314	Me	phenyl- NHC(O)NH	4-[(2,6-dichloro-4- pyridinyl)methoxy]phenyl	580
315	Me	(CH ₃ ) ₃ CO- C(O)NH	4-[(2,6-dichloro-4- pyridinyl)methoxy]phenyl	561
316	Ме	[2-(4- morph- olinyl) ethyl] NHC(0)NH	4-[(2,6-dichloro-4- pyridinyl)methoxy]phenyl	595
317	Ме	(CH ₃ ) ₃ CO- C(O)NHCH ₂ C(O)NH	4-[(2,6-dichloro-4- pyridinyl)methoxy)phenyl	618
318	Ме	(2- thiazolylNH C(O)NH	4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl	565
319	Me	(4- pyridinylNH C(0)NH	4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl	581
320	Me -	(3-HO- phenyl)NH C(O)NH	4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl	596
321	Ме	(2,3- dihydro-2- oxo-1H- benzimidazo 1-5- y1)NHC(0)NH	4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl	636
322	CH ₃ SO ₂ CH ₂ CH ₂	amino	4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl	532
323	CH ₃ SO ₂ CH ₂ CH ₂	amino	4-[(3,5-dimethylphenyl) methoxy]phenyl	491
324	CH ₃ SO ₂ CH ₂ CH ₂	[(2- thiazolyl- NHC(O)NH	4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl	657

325	CH ₃ SO ₂ CH ₂ CH ₂	[(2- thiazolylNH C(O)NH	4-[(3,5-dimethylphenyl)methoxy]pheny	617
326	4-[(2- propenyl)OC (0)NH]butyl	amino	4-[(2,6-dichloro-4- pyridinyl)methoxy]phenyl	580
327	4-[(2- propeny1)OC (0)NH]butyl	amino	4-[(2,6-dimethyl-4- pyridinyl)methoxy]phenyl	562
328	i=Bu	amino	4-[(2,6-dichloro-4- pyridinyl)methoxy]phenyl	481
329	i-Bu	[(2- thiazolylNH C(O)NH	4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl	629
330	i-Bu	[(2- thiazolylNH C(O)NH	4-[(2,6-dimethyl-4- pyridinyl)methoxy]phenyl	567
331	i-Bu	[(2- pyridinylNH C(0)NH	4-[(2,6-dichloro-4- pyridinyl)methoxy]phenyl	623
332	i-Bu	CF ₃ CH ₂ C(O)- NHC(O)NH	4-[(2,6-dimethyl-4- pyridinyl)methoxy]phenyl	537
333	i-Bu	[(2- pyridinylNH C(0)NH	4-[(2,6-dimethyl-4- pyridinyl)methoxy]phenyl	561
334	i-Bu	phenylSO ₂ - NHC(O)NH	4-[(2,6-dichloro-4- pyridinyl)methoxy]phenyl	686
335	i-Bu	phenylSO ₂ - NHC(O)NH	4-[(2,6-dimethyl-4- pyridinyl)methoxy]phenyl	624
336	i-Bu	[[(3-Me-5- isothiazol- yl)NHC(0)NH	4-[(2,6-dichloro-4- pyridinyl)methoxy]phenyl	621
337	i-Bu	1H- benzimidazo 1-2- ylNHC(O)NH	4-[(2,6-dichloro-4- pyridinyl)methoxy]phenyl	640
338	i-Bu	1H- benzimidazo 1-2- ylNHC(O)NH	4-[(2,6-dimethyl-4- pyridinyl)methoxy]phenyl	600
339	i-Bu	phenylNH- C(O)NH	4-[(2,6-dimethyl-4- pyridinyl)methoxy]phenyl	560
340	i-Bu	phenyl- NHC(O)NH	4-[(2,6-dichloro-4- pyridinyl)methoxy]phenyl	622
341	i-Bu	$(CH_3)_3N^+$	(phenylmethoxy)phenyl	454
342	i-Bu	amino	4-(4- quinolinylmethoxy)phenyl	446
343	i-Bu	amino	4-(2-oxo-2- phenylethoxy)phenyl	455
344	i-Bu	amino	4-[(3,5-dimethyl-4- isoxazolyl)methoxy]phenyl	431
345	i-Bu	amino	4-[(2,6-dimethyl-4- pyridinyl)methoxy]phenyl	441
346	i-Bu	amino	4-[2-(2- benzothiazolylamino)-2- oxoethoxy]phenyl	512
347	i-Bu	amino	4-[(2-methoxy-4- quinolinyl)methoxy]phenyl	476

348	i-Bu	amino	4-[(2-phenyl-4- quinolinyl)methoxy]phenyl	539
349	i-Bu	amino	4-[(2,6-dimethyl-4-	491
250	<u> </u>		quinolinyl)methoxy]phenyl 4-[(2-chloro-4-	400
350	i-Bu	amino	quinolinyl)methoxylphenyl	497
351	i-Bu	amino	4-[2-(2,5-dimethoxyphenyl)-	515
•			2-	313
	<u> </u>	<u> </u>	(hydroxyimino)ethoxy)phenyl	
352	i-Bu	amino	4-[(2-methylimidazo[1,2-a]	466
	<del>                                     </del>	<del></del>	pyridin-3-yl)methoxy]phenyl	
353	i-Bu	amino	4-[[1,4-dimethyl-2- (methylthio)-1H-imidazol-5-	476
			yl]methoxy]phenyl	
354	i-Bu	amino	4-[[1,5-dimethyl-2-	476
		İ	(methylthio)-1H-imidazol-4-	
			yl]methoxy]phenyl	
355	i-Bu	amino	4-[(2,4-dimethyl-5-	447
			thiazolyl)methoxy]phenyl	
356	i-Bu	amino	4-[(2-methyl-4-	477
			quinolinyl)methoxy]phenyl	
357	CH ₃ SO ₂ CH ₂ CH ₂	amino	4-[(2-chloro-4-	547
-350			quinolinyl)methoxy]phenyl	
358	CH ₃ SO ₂ CH ₂ CH ₂	amino	4-[(2-methyl-4- quinolinyl)methoxy]phenyl	527
359	CH ₃ SO ₂ CH ₂ CH ₂	amino	4-[(3,5-dimethoxy-	522
337	chi3502chi2chi2	dillino	phenyl)methoxy]phenyl	322
360	CH3SO2CH2CH2	amino	4-[(2-methoxy-4-	526
	3 2 2 2		quinolinyl)methoxy]phenyl	
361	i-Bu	amino	4-[(3,5-dimethoxyphenyl)	455
			methoxy]phenyl	
362	i-Bu	amino	4-[(2-CH ₃ O-5-nitro-	470
			phenyl)methoxy]phenyl	
363	i-Bu	amino	4-[(5- quinolinyl)methoxy]phenyl	446
364	2-(CH3SO2)-	amino	4-[(2-CH ₃ O-5-nitro-	520
501	ethyl	`	phenyl)methoxy]phenyl	320
365	2-(CH ₃ SO ₂ )-	amino	4-[(2-nitro-4,5-dimethoxy-	567
	ethyl		phenyl)methoxy]phenyl	
366	2-(CH3SO2)-	amino	4-[(2-phenyl-4-	589
	ethyl		quinolinyl)methoxy)phenyl	
367	2-(CH3SO2)-	amino	4-[(3,5-dimethyl-4-	481
	ethyl		isoxazolyl)methoxy]phenyl	
368	(4-HO-	amino	4-[(phenyl)methoxy]phenyl	462
	phenyl)-			
360	methyl		4 (/2 makha-1 4	5.44
369	(4-CH ₃ O-	amino	4-[(2-methyl-4- quinolinyl)methoxy]phenyl	541
	phenyl)- methyl		quinoring;/methoxy/phenyi	
370	(4-CH ₃ O-	amino	4-[(2,6-dimethyl-4-	505
5.0	phenyl)-		pyridinyl)methoxylphenyl	505
	methyl			
371	(4-CH ₃ O-	amino	4-[(phenyl)methoxy]phenyl	476
	phenyl)-			0
	methyl			
450	i-Bu	aminomethyl	4-[(2,6-dimethyl-4-	455
	L		pyridinyl)methoxy]phenyl	

451	i-Bu	2- thiazolylNH C(O)NHCH ₂	4-[(2,6-dimethyl-4- pyridinyl)methoxy]phenyl	581
452	Me	aminomethyl	4-[(2,6-dichloro-4- pyridinyl)methoxy]phenyl	453
453	Ме	2- thiazolylNH C(O)NHCH ₂	4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl	579
454			see structure at bottom	398
455	Me	HOCH ₂	4-[(3,5-dimethylphenyl) methoxy]phenyl	435
456	Me	CH ₃ CH ₂ NH- C(O)OCH ₂	4-[(3,5-dimethylphenyl) methoxy]phenyl	506
457	Me	HOCH ₂	4-[(2,6-dichloro-4- pyridinyl)methoxy]phenyl	476
458			see structure at bottom	381
459	Me	Me	5-[(3,5-dimethylphenoxy) methyl]-2-thienyl	425
460			see structure at bottom	460
461	Me	Me	[4-(phenylmethoxy) phenyl]methyl	405
462	i-Bu	CH3NH	4-[(2,6-dimethyl-4- pyridinyl)methoxy]phenyl	455
463	i-Bu	CH ₃ NH	<pre>4-[(2-methyl-4- quinolinyl)methoxy]phenyl</pre>	491
464			see structure at bottom	405
501	4- piperidinyl	amino	4-(4- quinolinylmethoxy)phenyl	490
502	4- piperidinyl	amino	4-[(2,6-chloro-4- pyridinyl)methoxy]phenyl	508
503	1- [(CH ₃ ) ₃ CO- C(O)]-4- piperidinyl	(CH ₃ ) ₃ CO- C(O)NH	4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl	668
504_	4- piperidinyl	amino	<pre>4-[(2,6-dimethyl-4- pyridinyl)methoxy]phenyl</pre>	468
505	1-(CH ₃ SO ₂ )- 4- piperidinyl	amino	4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl	546
506	1-acetyl-4- piperidinyl	amino	<pre>4-[(2,6-dimethyl-4- pyridinyl)methoxy]phenyl</pre>	510
507	1-(2,2- dimethyl-1- oxopropyl)- 4-	amino	4-[(2,6-dimethyl-4- pyridinyl)methoxy)phenyl	552
508	piperidinyl 1-	ami	A_[/2 6_dimather] A	5.60
	1- [(CH ₃ ) ₃ CO- C(O)]-4- piperidinyl	amino	4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl	568
509	1- (CH ₃ OC(O))- 4- piperidinyl	amino	4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl	526
510	1-methyl-4- piperidinyl	amino	4-[(2,6-dimethyl-4- pyridinyl)methoxy]phenyl	482

511	1-dimethyl- carbamyl-4-	amino	4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl	539
	piperidinyl			
512	1-cycPr-	amino	4-[(2,6-dimethyl-4-	536
	C(O)-4-		pyridinyl)methoxy]phenyl	
	piperidinyl		4 (4	<del> </del>
513	i-Pr	amino	4-(4- quinolinylmethoxy)phenyl	449
514	i-Pr	amino	4-[(2,6-dimethyl-4-	427
214	1-71	amino	pyridinyl)methoxylphenyl	42/
515	cyclohexyl	amino	4- (4-	589
313	oyeromeny.	amzno	quinolinylmethoxy)phenyl	303
516	cyclohexyl	amino	4-[(2,6-dimethyl-4-	467
			pyridinyl)methoxylphenyl	
517	t-Bu	amino	4-[(2,6-dimethyl-4-	441
			pyridinyl)methoxy]phenyl	
518	t-Bu	amino	4-(4-	461
			quinolinylmethoxy)phenyl	
519	t-Bu	amino	4-(2-methyl-4-	477
		<del></del> -	quinolinylmethoxy)phenyl	
520	i-Pr	amino	4-(2-methyl-4-	463
- F01			quinolinylmethoxy)phenyl	
521	i-Pr	amino	4-(2,6-dimethyl-4- quinolinylmethoxy)phenyl	477
522	1-(4-	amino	4-[(2,6-dimethyl-4-	5.01
542	morpholino-	amino	pyridinyl)methoxylphenyl	581
	C(O))-4-		pyrramyr/methoxy/phenyr	
	piperidinyl			
523	1-(2-	amino	4-[(2,6-dimethyl-4-	538
	methyl-1-		pyridinyl)methoxy]phenyl	
	oxopropyl)-			j
	4-		·	ļ
	piperidinyl			
524	4-CH ₃ O-	amino	4-[(2,6-dimethyl-4-	497
	сусНех		pyridinyl)methoxy]phenyl	
525			see structure at bottom	422
526	1-(phenyl-	amino	4-[(2,6-dimethyl-4-	572
	C(O))-4- piperidinyl		pyridinyl)methoxy]phenyl	
527	1-(1-	amino	4-[(2,6-dimethyl-4-	524
527	oxopropyl)-	amilio	pyridinyl)methoxylphenyl	324
	4-		Elizatili, mediovà i budili	l
	piperidinyl			
528	1-acetyl-4-	amino	4-(2-methyl-4-	546
	piperidinyl		quinolinylmethoxy)phenyl	
529	1-(CH ₃ SO ₂ )-	amino	4-(2-methyl-4-	582
	4-		quinolinylmethoxy)phenyl	
	piperidinyl			
530	1-(2,2-di-	amino	4-(2-methyl-4-	588
	CH ₃ -1-		quinolinylmethoxy)phenyl	
	oxopropyl)-			
	4-			
E 2.1	piperidinyl		1 11	
531	1-acetyl-4-	amino	4-(4- quinolinylmethoxy)phenyl	532
532	piperidinyl 1-(CH ₃ SO ₂ )-	amino	4-(4-	560
JJ &	4-	ARTIO	quinolinylmethoxy)phenyl	568
	piperidinyl		quantity ameniony , prictigat	
	, p-porrunity			

533	1-acetyl-4-	amino	4-[(3,5-	541
	piperidinyl		dimethoxyphenyl)methoxy]phen	
			yl	•
534	1-acetyl-4-	amino	4-[(5-methyl-3-	540
	piperidinyl		nitrophenyl)methoxy]phenyl	340
535	1-acetyl-4-	amino	4-[3,5-bis(trifluoromethyl)	603
333	piperidinyl	amilio	phenoxy]phenyl	603
536				
536	1-acetyl-4-	amino	4-[(3,5-dichlorophenyl)	549
	piperidinyl		methoxy]phenyl	
5-3-7	1-acetyl-4-	amino	4-(6-fluoro-2-methyl-4-	564
	piperidinyl		quinolinylmethoxy)phenyl	
538	1-acetyl-4-	amino	4-(7-chloro-2-methyl-4-	580
	piperidinyl		quinolinylmethoxy)phenyl	
539	1-acetyl-4-	amino	4-(6-chloro-2-methyl-4-	580
	piperidinyl		quinolinylmethoxy)phenyl	
540	1-acetyl-4-	amino	4-(6-methoxy-2-methyl-4-	576
510	piperidinyl	Q.III.E	quinolinylmethoxy)phenyl	370
541	4-	amino	4-(2,7-dimethyl-4-	F10
241	piperidinyl	amilio	quinolinylmethoxy)phenyl	518
542	1-acetyl-4-	amino	4-(2,7-dimethyl-4-	560
	piperidinyl		quinolinylmethoxy)phenyl	
543	4-	amino	4-(2-CH ₃ O-4-	520
	piperidinyl		quinolinylmethoxy)phenyl	
544	4 –	amino	4-[(3,5-dimethoxy-	499
	piperidinyl		phenyl)methoxy]phenyl	
545	4-	amino	4-[(2,6-diethyl-4-	496
	piperidinyl		pyridinyl)methoxy]phenyl	400
546	1-acetyl-4-	amino	4-[(2,6-diethyl-4-	538
310	piperidinyl	um2110	pyridinyl)methoxylphenyl	230
547	4-	amino	4-(7-methyl-4-	504
747	- !	allillo		504
	piperidinyl		quinolinylmethoxy)phenyl	
548	4-methoxy-	amino	- \-	519
	сусНех		quinolinylmethoxy)phenyl	
549	t-Bu	amino	4-(2,6-dimethyl-4-	491
			quinolinylmethoxy)phenyl	
550	methyl	methyl	4-[(2,6-dimethyl-1-oxido-4-	414
			pyridinyl)methoxy]phenyl	
551	t-Bu	amino	4-(7-chloro-2-methyl-4-	511
			quinolinylmethoxy)phenyl	
552	t-Bu	amino	4-(6-fluoro-2-methyl-4-	495
			quinolinylmethoxy)phenyl	233
553	t-Bu	amino	4-(6-chloro-2-methyl-4-	511
			quinolinylmethoxy)phenyl	
554	t-Bu	amino	4-(6-methoxy-2-methyl-4-	<u> </u>
224	C-Bu	amilio	quinolinylmethoxy)phenyl	507
555	+ D:		4-(2,7-dimethyl-4-	404
222	t-Bu	amino		491
		<del></del>	quinolinylmethoxy)phenyl	
556	t-Bu	amino	4-(7-methyl-4-	477
			quinolinylmethoxy)phenyl	
557	сусНех	amino	4-(2-methyl-4-	503
			quinolinylmethoxy)phenyl	
558	сусНех	amino	4-(2,6-dimethyl-4-	517
			quinolinylmethoxy)phenyl	
559	i-Pr	amino	4-[(5-methyl-3-	457
-		<del>-</del>	nitrophenyl)methoxy]phenyl	~J,
560	i-Pr	amino	4-[3,5-bis(trifluoromethyl)	518
		- LILO	phenoxy)phenyl	210
561	i-Pr	amino	4-[[3,5-bis(trifluoromethyl)]	F2.4
201	T-LT	amilio	phenyl]methoxy]phenyl	534
			brieff I we choxy i bueny i	

562	i-Pr	amino	4-(3,5-dibromophenoxy)phenyl	523
563	i-Pr	amino	4-(6-fluoro-2-methyl-4-	481
			quinolinylmethoxy)phenyl	
564	i-Pr	amino	$4-(6-CH_3O-2-methyl-4-$	493
			quinolinylmethoxy)phenyl	
565	i-Pr	amino	4-(7-chloro-2-methyl-4-	497
			quinolinylmethoxy)phenyl	
566	i-Pr	amino	4-(6-chloro-2-methyl-4-	497
	<del></del>		quinolinylmethoxy)phenyl	
567	i-Pr	amino	4-(2-CH ₃ O-4-	479
	<del></del>		quinolinylmethoxy)phenyl	
568	i-Pr	amino	4-(2,7-dimethyl-4-	477
-550		<del></del>	quinolinylmethoxy)phenyl	
569	i-Pr	amino	4-[(2,6-diethyl-4-	455
700		No.	pyridinyl)methoxylphenyl	
700	Me	Me	3-(phenylmethoxy)phenyl	367
701	Me	Me	3-[(3,5-dimethylphenyl)	395
702	24-	- M-	methoxy]phenyl	201
702	Me	Me	3-[(3-methylphenyl)	381
703	Me	Me	methoxy]phenyl 3-(1-methylethoxy)phenyl	663
			<u> </u>	663
704	Me	Me	3-heptyloxyphenyl	375
705	Me	2-oxo-2-	4-[(2,6-dichloro-4-	563
		[(1,3,4- thiadiazol-	pyridinyl)methoxy]phenyl	
1		2-yl)NH]		
i		ethyl		
706	Me	2-	4-(phenylmethoxy)phenyl	467
		((CH ₃ ) ₃ CO)-		407
		2-oxoethyl		
707	Me	2-но-2-	4-(phenylmethoxy)phenyl	411
		oxoethyl		
708	Me	2-[2-	4-[(3,5-dimethylphenyl)	533
		(CH ₃ NH)-2-	methoxy]phenyl	
		oxoethyl]	İ	
		NH]-2-		
		oxoethyl		
709	Me	2-oxo-2-	4-[(3,5-dimethylphenyl)	521
		[(2- thiazoly1)N	methoxy]phenyl	
		H]ethyl		
710	Me	2-(4-	4-[(3,5-dimethylphenyl)	532
,10	Me	morpholin-	methoxy]phenyl	532
		y1)-2-	mediony (priority i	
ļ		oxoethyl		
711	Me	2-oxo-2-	4-[(3,5-dichlorophenyl)	564
		[(2-	methoxy)phenyl	
		thiazolyl)N		
		H]ethyl		
712	Me	2-[2-[(4-	4-[(3,5-dichlorophenyl)	594
		morpholin-	methoxy]phenyl	•
		yl)ethyl]		
		NH]-2-		
		oxoethyl		
713	Me	2-oxo-2-	4-[(3,5-dichlorophenyl)	594
		[(4-	methoxy]phenyl	
		pyridinyl) CH ₂ NH]ethyl		
		CHAMILLECHAT	<u></u>	

714	Me	2-oxo-2- [(2- thiazoly1)	4-[(3,5-dimethylphenyl) methoxy]phenyl	524
		NH]ethyl		ľ
715	Me	2-oxo-2- [(3-	4-[(3,5-dichlorophenyl) methoxy]phenyl	594
		pyridinyl)C H ₂ NH]ethyl		
716	Me	2-oxo-2-	4-[(3,5-dichlorophenyl) methoxy]phenyl	572
		pyridinyl) CH ₂ NH]ethyl		
717	Me	2-oxo-2- [(4-	4-[(3,5-dichlorophenyl) methoxy]phenyl	558
		pyridinyl)	mechoxy   pheny i	
710	Ma	NH]ethyl	1 [/2 E 2: -h]	<del> </del>
718	Me	2-[(3-Me-5- isothiazol-	4-[(3,5-dichlorophenyl) methoxy]phenyl	576
		y1)NH]-2-		
710		oxoethyl	4 (/2 5 2: 12 2: 2	
719	Me	2-[[5-(t- Bu)-1,3,4-	4-[(3,5-dichlorophenyl) methoxy]phenyl	619
		thiadiazol-	onony 1 priority 2	
		2-y1]NH]-2-		
		oxoethyl		
720	Me	2-[[4-[2-	4-[(3,5-dichlorophenyl)	676
		(t-Butoxy-	methoxy]phenyl	
		ethoxy)-2- oxoethyl]-		1
		2-thiazol-		
		yl]NH]-2-		
		oxoethyl		
721	Me	2-[[4-(2-	4-[(3,5-dichlorophenyl)	620
		HO-2- oxoethyl)-	methoxy]phenyl	
		2-thiazol-	*	
į		y1]NH]-2-		
		oxoethyl		
722	Me	2-[[4-(2-	4-[(3,5-dichlorophenyl)	657
		CH ₃ NH-2- oxoethyl)-	methoxy]phenyl	
		2-thiazol-		
		y1]NH]-2-		
		oxoethyl		
723	Me	1 <i>H</i> -	4-[(3,5-dichlorophenyl)	554
		benzimidazo	methoxy]phenyl	
		ylmethyl		
724	Me	3 <i>H</i> -	4-[(3,5-dichlorophenyl)	555
Ì		imidazo[4,5	methoxy)phenyl	7 .
		-c]pyridin-		
725	Ma	2-ylmethyl 2-oxo-2-(2-	4-[3,5-bis(trifluoromethyl)	C15
,23	Me	z-oxo-z-(z- thiazol-	phenyloxy]phenyl	615
		yl)NH-ethyl	Swerry rowy I brieffy r	
726	Me	2-oxo-2-	4-[3,5-bis(trifluoromethyl)	625
İ		[(4-	phenyloxy]phenyl	
		pyridin-		
		y1)CH ₂ NH-		
		ethyl		

780	i-Pr	2-oxo-2-(4- pyridin-	<pre>4-[(2,6-dimethyl-4- pyridinyl)methoxy]phenyl</pre>	560
		ylCH ₂ )NH- ethyl		
781	i-Pr	2-oxo-2-(4-	4-[(2,6-dichloro-4-	600
		pyridin-yl	pyridinyl)methoxylphenyl	
		CH ₃ )NH-		1
		ethyl		Ì
782	cyclohexylm	2-oxo-2-(4-	4-[(2,6-dimethyl-4-	614
	ethyl	pyridinyl	pyridinyl)methoxy]phenyl	""
	1	CH ₂ )NH-		1
		ethyl		İ
783	cyclohexylm	2-oxo-2-(4-	4-[(2,6-dichloro-4-	654
	ethyl	pyridinyl	pyridinyl)methoxy]phenyl	054
	0011,72	CH ₂ )NH-	pyca and pymerically product	
		ethyl		1
784	4-	2-oxo-2-(4-	4-[(2,6-dimethyl-4-	689
, 01	[(CH ₃ ) ₃ CO-	pyridinyl	pyridinyl)methoxy)phenyl	085
	C(O)NH]	CH ₂ )NH-	pyllaling 1, me emonty , priemy 1	
	butyl	ethyl		ł
785	4-	2-0x0-2-	4-[(2,6-dimethyl-4-	590
,03	aminobutyl	[(4-	pyridinyl)methoxy]phenyl	390
		pyridinyl	pyrrarily r/meenony i piieny r	
		CH ₃ )NH-		
	<b> </b> .	ethyl		1
800	methyl	methyl	3-(1H-benzotriazol-1-	408
000	INCCITY I	I IIIC CITY I	ylmethoxy)phenyl	408
801	(3,4,4-tri-	methyl	4-(phenylmethoxy)phenyl	509
001	Me-2,5-		(priority 2 moonlossy / priority 1	] 303
	dioxo-1-			}
	imidazo-			
	linyl)CH2			ł
802	i-Bu	2-(t-	4-(phenylmethoxy)phenyl	509
		butoxy)-2-		
		oxoethyl	-	1
803	i-Bu	2-[2-	4-[(3,5-dimethylphenyl)	. 533
		(CH ₃ NH)-2-	methoxy]phenyl	
		oxoethyl]		
		NH]-2-		•
		oxoethyl		
804	i-Bu	2-[2-	4-[(2,6-dichloro-4-	595
		(CH ₃ NH)-2-	pyridinyl)methoxy]phenyl	
		oxoethyl]		
		NH]-2-		
		oxoethyl		
805	i-Bu	2-oxo-2-(2-	4-[(2,6-dichloro-4-	607
		thiazol-	pyridinyl)methoxy]phenyl	
		yl)NH-ethyl		
806	i-Bu	2-[2-	4-[3,5-bis(trifluoromethyl)	647
		(CH ₃ NH)-2-	phenyloxy]phenyl	
		oxoethyl]	·	
		NH-2-		
		oxoethyl		
807	i-Bu	2-oxo-2-	4-[3,5-bis(trifluoromethyl)	667
		[(4-	phenyloxy]phenyl	
		pyridinyl)		
		CH ₂ ]NH-		
		ethyl		

		<del></del>		<del>,</del>
808	i-Bu	2-oxo-2-	4-[(2,6-dichloro-4-	600
ĺ		(phenyl-	pyridinyl)methoxy]phenyl	
		NH)ethyl		
809	i-Bu	2-oxo-2-	4-[(2,6-dimethyl-4-	497
İ		(CH ₃ -	pyridinyl)methoxy]phenyl	1
1		NH)ethyl		
810	i-Bu	2-[2-(1 <i>H</i> -	4-[(2,6-dimethyl-4-	577
0	1 24	imidazol-4-	pyridinyl)methoxylphenyl	) 3//
		yl)ethyl]NH	pyridinyr/methoxy/phenyr	
		2-oxoethyl		
011	÷ D		4.572.6.71.11.7.4	<del> </del>
811	i-Bu	2-2-[1-	4-[(2,6-dimethyl-4-	656
ì		(phenylCH ₂ )	pyridinyl)methoxy]phenyl	i
l		-4-		ŀ
1		piperidinyl		
		NH]-2-	<b>{</b>	İ
		oxoethyl	l	
812	i-Bu	2-[2-	4-[(2,6-dichloro-4-	554
		(dimethylam	pyridinyl)methoxy]phenyl	
		ino)		
ŀ		ethyl]NH-2-		
[.		oxoethyl		
813	i-Bu	2-[(4-HO-	4-[(2,6-dimethyl-4-	575
i		phenyl)NH]-	pyridinyl)methoxy]phenyl	3,3
1		2-oxoethyl		
814	i-Bu	2-oxo-2-(2-	4-[(2,6-dimethyl-4-	566
		thiazol-	pyridinyl)methoxylphenyl	300
İ		yl)NH-ethyl	pyrraring ry meeticky (pitelly r	
815	i-Bu	2-HO-ethyl	4-[(2,6-dimethyl-4-	470
023	1 Du	2 110 001191	pyridinyl)methoxy]phenyl	470
816	i-Bu	2-[(4,5-	4-[(2,6-dimethyl-4-	
810	1-Bu	dimethy1-2-		594
1		thiazol-	pyridinyl)methoxy]phenyl	
		y1)NH]-2-		
-015	<del></del>	oxoethyl		
817	i-Bu	2-[(1 <i>H</i> -	4-[(2,6-dimethyl-4-	599
		indazo1-5-	pyridinyl)methoxy]phenyl	
ĺ		yl)NH]-2-		
		oxoethyl		
818	i-Bu	2-oxo-2-	4-[3,5-bis(trifluoromethyl)	659
ł		[(2-	phenyloxy]phenyl	
		thiazol-		
1		yl)NH]ethyl		

The following tables contain representative examples of the present invention. Each entry in each table is intended to be paired with each formula at the start of the table. For example, in Table 2, example 1 is intended to be paired with each of formulae A1-FF3.

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#### TABLE 2

10

HO N R2

HO N R2

R1 (R2=Me)

Q2 (R2=NH2)

Q3 (R2=OH)

R3 (R2=OH)

R3 (R2=OH)

R4 (R2=Me)

R1 (R2=Me)

R1 (R2=Me)

R2 (R2=NH2)

R3 (R2=OH)

R4 (R2=Me)

R5 (R2=Me)

R1 (R2=Me)

R1 (R2=Me)

R1 (R2=Me)

R2 (R2=NH2)

R3 (R2=OH)

R3 (R2=OH)

R3 (R2=OH)

Ex#	_R 10
1	Н
2	methyl
3	methoxy
4	1-methylethyl
5	1-methylethoxy
6	phenyl
7	[1,1'-biphenyl]-4-yl
8	phenoxy
9	2-phenylethyl
10	2-(3,5-dimethylphenyl)ethyl
11	1-(2,6-dimethylphenyl)ethyl
12	2-phenylethenyl
13	phenoxymethyl
14	(2-methylphenyl)methoxy
15	(3-methylphenyl)methoxy
16	3-methylphenoxy
17	2,6-dimethylphenoxy
18	(2,6-dimethylphenyl)methoxy
19	3.5-dimethylphenoxy

5

	(2 5 35
20	(3,5-dimethylphenyl)methoxy
21	2-(3,5-dimethylphenyl)ethyl
	2-(3,5-dimethylphenyl)ethenyl
23	(3-amino-5-methylphenyl) methoxy
24	(2-amino-6-methylphenyl) methoxy
25	(3-cyano-5-methylphenyl)methoxy
26	(3-cyano-5-methylphenoxy)methyl
27	(3-cyano-5-nitrophenyl)methoxy
28	(3,5-diethoxyphenyl)methoxy
	(3,5-dimethoxyphenyl)methoxy
30	3,5-dimethoxyphenoxy
31	2-(3,5-dimethoxyphenyl)ethyl
32	1-(3,5-dimethoxyphenyl)ethoxy
33	(3,5-dichlorophenyl)methoxy
34	(2,6-dichlorophenyl)methoxy
35	(3,5-dibromophenyl)methoxy
36	3,5-dibromophenoxy
37	(3-amino-5-cyanophenyl)methoxy
38	[2,6-bis(trifluoromethyl)phenyl]methoxy
39_	2,6-bis(trifluoromethyl)phenoxy
40	(3-aminocarbonyl-5-methylphenyl)methoxy
41	([1,1'-biphenyl]-2-yl)methoxy
42	([1,1'-biphenyl]-3-yl)methoxy
43	[5-methyl-3-(methylsulfonyl)phenyl]methoxy
44	5-methyl-3-(methylsulfonyl)phenoxy
45	(2-pyridinyl)methoxy
46	(4-pyridinyl)methoxy
47	(2,6-dimethyl-4-pyridinyl)methoxy
48	2,6-dimethyl-4-pyridinyloxy
49	1-(2,6-dimethyl-4-pyridinyl)ethoxy
50	(3,5-dimethyl-4-pyridinyl)methoxy
51	(2,6-diethyl-4-pyridinyl)methoxy
52	(2,6-dichloro-4-pyridinyl)methoxy
53	(2,6-dimethoxy-4-pyridinyl)methoxy
54	(2-chloro-6-methyl-4-pyridinyl)methoxy
55	(2-chloro-6-methoxy-4-pyridinyl)methoxy
56	(2-methoxy-6-methyl-4-pyridinyl)methoxy
57	(1-naphthalenyl)methoxy
58	1-naphthalenyloxy
59	1-naphthalenyloxy (2-naphthalenyl)methoxy
59 60	1-naphthalenyloxy (2-naphthalenyl)methoxy (2-methyl-1-naphthalenyl)methoxy
59 60 61	1-naphthalenyloxy (2-naphthalenyl)methoxy (2-methyl-1-naphthalenyl)methoxy (4-methyl-2-naphthalenyl)methoxy
59 60 61 62	1-naphthalenyloxy (2-naphthalenyl)methoxy (2-methyl-1-naphthalenyl)methoxy (4-methyl-2-naphthalenyl)methoxy (4-quinolinyl)methoxy
59 60 61 62 63	1-naphthalenyloxy (2-naphthalenyl)methoxy (2-methyl-1-naphthalenyl)methoxy (4-methyl-2-naphthalenyl)methoxy (4-quinolinyl)methoxy 1-(4-quinolinyl)ethoxy
59 60 61 62 63 64	1-naphthalenyloxy (2-naphthalenyl)methoxy (2-methyl-1-naphthalenyl)methoxy (4-methyl-2-naphthalenyl)methoxy (4-quinolinyl)methoxy 1-(4-quinolinyl)ethoxy 4-quinolinyloxy
59 60 61 62 63 64 65	1-naphthalenyloxy (2-naphthalenyl)methoxy (2-methyl-1-naphthalenyl)methoxy (4-methyl-2-naphthalenyl)methoxy (4-quinolinyl)methoxy 1-(4-quinolinyl)ethoxy 4-quinolinyloxy (4-quinolinyloxy)methyl
59 60 61 62 63 64 65 66	1-naphthalenyloxy (2-naphthalenyl)methoxy (2-methyl-1-naphthalenyl)methoxy (4-methyl-2-naphthalenyl)methoxy (4-quinolinyl)methoxy 1-(4-quinolinyl)ethoxy 4-quinolinyloxy (4-quinolinyloxy)methyl 2-(4-quinolinyl)ethyl
59 60 61 62 63 64 65 66	1-naphthalenyloxy (2-naphthalenyl)methoxy (2-methyl-1-naphthalenyl)methoxy (4-methyl-2-naphthalenyl)methoxy (4-quinolinyl)methoxy 1-(4-quinolinyl)ethoxy 4-quinolinyloxy (4-quinolinyloxy)methyl 2-(4-quinolinyl)ethyl (2-methyl-4-quinolinyl)methoxy
59 60 61 62 63 64 65 66 67 68	1-naphthalenyloxy (2-naphthalenyl)methoxy (2-methyl-1-naphthalenyl)methoxy (4-methyl-2-naphthalenyl)methoxy (4-quinolinyl)methoxy 1-(4-quinolinyl)ethoxy 4-quinolinyloxy (4-quinolinyloxy)methyl 2-(4-quinolinyl)ethyl (2-methyl-4-quinolinyl)methoxy 2-methyl-4-quinolinyloxy
59 60 61 62 63 64 65 66 67 68 69	1-naphthalenyloxy (2-naphthalenyl)methoxy (2-methyl-1-naphthalenyl)methoxy (4-methyl-2-naphthalenyl)methoxy (4-quinolinyl)methoxy 1-(4-quinolinyl)ethoxy 4-quinolinyloxy (4-quinolinyloxy)methyl 2-(4-quinolinyl)ethyl (2-methyl-4-quinolinyl)methoxy 2-methyl-4-quinolinyloxy (2-chloro-4-quinolinyl)methoxy
59 60 61 62 63 64 65 66 67 68	1-naphthalenyloxy (2-naphthalenyl)methoxy (2-methyl-1-naphthalenyl)methoxy (4-methyl-2-naphthalenyl)methoxy (4-quinolinyl)methoxy 1-(4-quinolinyl)ethoxy 4-quinolinyloxy (4-quinolinyloxy)methyl 2-(4-quinolinyl)ethyl (2-methyl-4-quinolinyl)methoxy 2-methyl-4-quinolinyloxy

72	(2-trifluoromethyl-4-quinolinyl)methoxy
73	(2-phenyl-4-quinolinyl)methoxy
74	(2,6-dimethyl-4-quinolinyl)methoxy
75	(2,7-dimethyl-4-quinolinyl)methoxy
76	(5-quinolinyl)methoxy
77	(7-methyl-5-quinolinyl)methoxy
78	(7-methoxy-5-quinolinyl)methoxy
79	(8-quinolinyl)methoxy
80	2-(1,2,3-benzotriazol-1-yl)ethyl
81	(2-benzimidazolyl)methoxy
82	(1,4-dimethyl-5-imidazolyl)methoxy
83	(3,5-dimethyl-4-isoxazolyl)methoxy
84	(4,5-dimethyl-2-oxazolyl)methoxy
85	(2,5-dimethyl-4-thiazolyl)methoxy
86	(3,5-dimethyl-1-pyrazolyl)ethyl
87	(1,3-benzodioxo-4-yl)methoxy
88	(1,3,5-trimethyl-4-pyrazolyl)methoxy
89	(2,6-dimethyl-4-pyrimidinyl)methoxy
90	(4,5-dimethyl-2-furanyl)methoxy
91	(4,5-dimethyl-2-thiazolyl)methoxy
92	2-(2-oxazolyl)ethyl

L7 (X=linker A)

### TABLE 3

A1 ( $X = linker \Sigma$ ) B1 (X=linker Σ) C1 (X=linker  $\Sigma$ ) D1 (X=linker Σ) A2  $(X = linker \Delta)$ A3  $(X = linker \Phi)$ B2 (X=linker Δ) C2 (X=linker  $\Delta$ ) D2 (X=linker Δ) B3-(X=linker Φ) C3 (X=linker Φ) D3 (X=linker Φ) A4 (X=linker  $\Omega$ ) B4 (X=linker  $\Omega$ ) C4 (X=linker  $\Omega$ ) D4 (X=linker  $\Omega$ ) A5  $(X=linker \Pi)$ B5 ( $X = linker \Pi$ ) C5 (X=linker II) D5 (X=linker Π) A6  $(X=linker \Psi)$ B6 (X=linker Ψ) D6 (X=linkerΨ) C6 (X=linker Ψ) A7 (X=linker  $\Lambda$ ) B7 (X=linker Λ) C7 (X=linker A) D7 ( $X=linker \Lambda$ ) QMe ŅΗ2 но-Н. HON .HO_ E1 ( $X = linker \Sigma$ ) F1 (X=linker  $\Sigma$ ) G1 ( $X = linker \Sigma$ ) H1 (X=linker  $\Sigma$ ) E2  $(X=linker \Delta)$ F2 (X=linker  $\Delta$ ) H2 (X=linker  $\Delta$ ) G2 ( $X = linker \Delta$ ) E3 (X=linker Φ) F3 (X=linker Φ) G3 (X=linker Φ) H3 (X=linker Φ) E4 (X=linker  $\Omega$ ) F4 (X=linker  $\Omega$ ) G4 (X=linker  $\Omega$ ) H4 (X=linker  $\Omega$ ) E5 (X=linker  $\Pi$ ) G5 (X=linker Π) G6 (X=linker Ψ) F5 (X=linker Π) H5 (X≈linker Π) E6 (X=linker Ψ) F6 (X=linker Ψ) H6 (X=linker Ψ) E7 (X=linker  $\Lambda$ ) F7 (X=linker  $\Lambda$ ) G7 (X=linker  $\Lambda$ ) H7 (X=linker A) J1 ( $X = linker \Sigma$ ) I1 ( $X = linker \Sigma$ ) K1 (X=linker  $\Sigma$ ) L1 ( $X=linker \Sigma$ ) J2 (X=linker Δ) I2 (X=linker Δ)
I3 (X=linker Φ) K2 (X=linker  $\Delta$ ) K3 (X=linker  $\Phi$ ) L2 (X=linker Δ) J3 (X=linker  $\Phi$ ) J4 (X=linker  $\Omega$ ) L3 (X=linker Φ) 14 (X=linker  $\Omega$ ) K4 (X=linker  $\Omega$ ) L4 (X=linker  $\Omega$ ) I5 (X=linker ∏) J5 (X=linker  $\Pi$ ) K5 (X=linker Π) L5 (X=linker Π) J6 (X=linker Ψ) I6 (X=linker Ψ) K6 (X=linker Ψ) K7 (X=linker Λ) L6 (X=linker Ψ) J7 (X=linker Λ) I7 (X=linker  $\Lambda$ )

5

Ex #	R ²	R ¹⁰
1	amino	methoxy
2	amino	1-methylethyl
3	amino	1-methylethoxy
4	amino	phenyl
5	amino	phenoxy
6	amino	2-phenylethyl
7	amino	2-(3,5-dimethylphenyl)ethyl
8	amino	2-phenylethenyl
9	amino	phenoxymethyl
10	_amino_	3,5-dimethylphenoxy
11	amino	(3,5-dimethylphenyl)methoxy
12	amino	2-(3,5-dimethylphenyl)ethyl
13	amino	2-(3,5-dimethylphenyl)ethenyl
14	amino	(3-amino-5-methylphenyl)methoxy
15	amino	(3,5-dimethoxyphenyl)methoxy
16	amino	3,5-dimethoxyphenoxy
17	amino	2-(3,5-dimethoxyphenyl)ethyl
18	amino	(3,5-dichlorophenyl)methoxy
19	amino	3,5-dibromophenoxy
20	amino	[2,6-bis(trifluoromethyl)phenyl]methoxy
21	amino	2,6-bis(trifluoromethyl)phenoxy
22	amino	[5-methyl-3-(methylsulfonyl)phenyl]methoxy
23	amino	5-methyl-3-(methylsulfonyl)phenoxy
24	amino	(2,6-dimethyl-4-pyridinyl)methoxy
25	amino	2,6-dimethyl-4-pyridinyloxy
26	amino	(2,6-dichloro-4-pyridinyl)methoxy
27	amino	(2-methoxy-6-methyl-4-pyridinyl)methoxy
28	amino	(1-naphthalenyl)methoxy
29	amino	1-naphthalenyloxy
30	amino	(2-naphthalenyl)methoxy
31	amino	(2-methyl-1-naphthalenyl)methoxy
32	amino	(4-methyl-2-naphthalenyl)methoxy
33	amino	(4-quinolinyl)methoxy
34	amino	1-(4-quinolinyl)ethoxy
35	amino	4-quinolinyloxy
36	amino	(4-quinolinyloxy)methyl
37	amino	(2-methyl-4-quinolinyl)methoxy

38			
40 amino		amino	
41	39	amino	
42	40	amino	2-(1,2,3-benzotriazol-1-yl)ethyl
43	41	amino	(2-benzimidazolyl)methoxy
44 amino (4,5-dimethyl-2-oxazolyl)methoxy 45 amino (2,5-dimethyl-1-pyrazolyl)methoxy 46 amino (3,5-dimethyl-1-pyrazolyl)ethyl 47 amino (1,3-benzodioxo-4-yl)methoxy 48 amino (1,3-benzodioxo-4-yl)methoxy 49 amino (2,6-dimethyl-4-pyrimidinyl)methoxy 50 amino (4,5-dimethyl-2-furanyl)methoxy 51 amino (4,5-dimethyl-2-furanyl)methoxy 52 amino (4,5-dimethyl-2-furanyl)methoxy 53 methyl methoxy 54 methyl 1-methylethyl 55 methyl 1-methylethyl 56 methyl phenyl 57 methyl phenoxy 58 methyl 2-janenylethyl 59 methyl 2-janenylethyl 60 methyl 2-janenylethyl 61 methyl 2-janenylethyl 62 methyl 3,5-dimethylphenyl)methoxy 63 methyl 3,5-dimethylphenyl)methoxy 64 methyl 3,5-dimethylphenyl)methoxy 65 methyl 3,5-dimethylphenyl)methoxy 66 methyl 3,5-dimethylphenyl)methoxy 67 methyl 3,5-dimethylphenyl)methoxy 68 methyl 3,5-dimethylphenyl)methoxy 69 methyl 3,5-dimethylphenyl)methoxy 69 methyl 3,5-dimethylphenyl)methoxy 69 methyl 3,5-dimethylphenyl)methoxy 60 methyl 3,5-dimethylphenyl)methoxy 61 methyl 3,5-dimethoxyphenyl)methoxy 62 methyl 3,5-dimethoxyphenyl)methoxy 63 methyl 3,5-dimethoxyphenyl)methoxy 64 methyl 3,5-dimethoxyphenyl)methoxy 65 methyl 3,5-dimethylphenyl)methoxy 66 methyl 3,5-dimethoxyphenyl)methoxy 67 methyl 3,5-dimethoxyphenyl)methoxy 68 methyl 3,5-dimethoxyphenyl)methoxy 69 methyl 3,5-dimethoxyphenyl)methoxy 70 methyl 3,5-dimethylphenyl)methoxy 71 methyl 3,5-dimethylphenyl)methoxy 72 methyl 3,5-dimethylphenyl)methoxy 73 methyl 3,6-bis(trifluoromethyl)phenyl)methoxy 74 methyl 5-methyl-3-(methylsulfonyl)methoxy 75 methyl 5-methyl-3-(methylsulfonyl)methoxy 76 methyl 5-methyl-3-(methylsulfonyl)methoxy 77 methyl 3,6-dimethyl-4-pyridinyl)methoxy 78 methyl (2,6-dimethyl-4-pyridinyl)methoxy 79 methyl (2,6-dimethyl-4-pyridinyl)methoxy 80 methyl (2-methoxy-6-methyl-1-pyridinyl)methoxy 81 methyl (2-methoxy-6-methyl-1-pyridinyl)methoxy 82 methyl (2-methoxy-6-methyl-1-pyridinyl)methoxy 83 methyl (2-methoxy-6-methyl-1-pyridinyl)methoxy 84 methyl (2-methoxy-6-methyl-methoxy 85 methyl (2-methoxy-6-methyl-methoxy 86 methyl (2-methoxy-6-me	42	amino	
45	43	amino	(3,5-dimethyl-4-isoxazolyl)methoxy
46 amino (3,5-dimethyl-1-pyrazolyl)ethyl 47 amino (1,3-benzodioxo-4-yl)methoxy 48 amino (1,3,5-trimethyl-4-pyrazolyl)methoxy 49 amino (2,6-dimethyl-2-furanyl)methoxy 50 amino (4,5-dimethyl-2-furanyl)methoxy 51 amino (4,5-dimethyl-2-furanyl)methoxy 52 amino 2-(2-oxazolyl)ethyl 53 methyl methoxy 54 methyl 1-methylethyl 55 methyl phenyl 56 methyl phenyl 57 methyl phenyl 58 methyl phenyl 59 methyl 2-(3,5-dimethylphenyl)ethyl 60 methyl 2-phenylethenyl 61 methyl phenoxy 62 methyl 3,5-dimethylphenyl)ethyl 63 methyl 3,5-dimethylphenyl)methoxy 64 methyl 3,5-dimethylphenyl)methoxy 65 methyl 3,5-dimethylphenyl)methoxy 66 methyl 3,5-dimethylphenyl)methoxy 67 methyl 3,5-dimethylphenyl)methoxy 68 methyl 3,5-dimethylphenyl)methoxy 69 methyl 3,5-dimethoxyphenylmethoxy 69 methyl 3,5-dimethoxyphenylmethoxy 69 methyl 3,5-dimethoxyphenylmethoxy 70 methyl 3,5-dimethoxyphenylmethoxy 71 methyl 3,5-dimethoxyphenylmethoxy 72 methyl 3,5-dimethoxyphenylmethoxy 73 methyl 3,5-dimethoxyphenylmethoxy 74 methyl 3,5-dimethoxyphenylmethoxy 75 methyl 5-methyl-3-(methylsulfonyl)phenylmethoxy 76 methyl (3,6-bis(trifluoromethyl)phenylmethoxy 77 methyl 5-methyl-3-(methylsulfonyl)phenoxy 78 methyl (2,6-dimethyl-4-pyridinyl)methoxy 79 methyl (2,6-dimethyl-4-pyridinyl)methoxy 70 methyl (2,6-dimethyl-4-pyridinyl)methoxy 71 methyl 5-methyl-3-(methylsulfonyl)phenoxy 72 methyl 5-methyl-3-(methylsulfonyl)phenoxy 73 methyl (2,6-dimethyl-4-pyridinyl)methoxy 74 methyl (2,6-dimethyl-4-pyridinyl)methoxy 75 methyl 1-naphthalenyl)methoxy 76 methyl (2-methoxy-6-methyl-4-pyridinyl)methoxy 77 methyl (2-methoxy-6-methyl-1-phenyl)methoxy 78 methyl (2-methoxy-6-methyl-1-phenyl)methoxy 80 methyl (2-methoxy-6-methyl-1-phenyl)methoxy 81 methyl (2-methoxy-6-methyl-1-phenyl)methoxy 82 methyl (2-methoxy-6-methyl-1-phenyl)methoxy 83 methyl (2-methoxy-6-methyl-1-phenyl)methoxy 84 methyl (2-methoxy-6-methyl-1-phenyl)methoxy 85 methyl (2-methoxy-6-methyl-1-phenyl)methoxy 86 methyl (2-methoxy-6-methyl-1-phenyl)methoxy 87 methyl (2-methyl-1-naphthalenyl)methoxy 88 methyl (2-methyl-	44	amino	(4,5-dimethyl-2-oxazolyl)methoxy
48	45	amino	(2,5-dimethyl-4-thiazolyl)methoxy
48 amino (1,3,5-trimethyl-4-pyriazolyl)methoxy 49 amino (2,6-dimethyl-4-pyrimidinyl)methoxy 50 amino (4,5-dimethyl-2-thiazolyl)methoxy 51 amino (4,5-dimethyl-2-thiazolyl)methoxy 52 amino 2-(2-oxazolyl)ethyl 53 methyl methoxy 54 methyl methoxy 55 methyl 1-methylethyl 55 methyl phenoxy 56 methyl phenoxy 57 methyl phenoxy 58 methyl 2-phenylethenyl 59 methyl 2-(3,5-dimethylphenyl)ethyl 60 methyl phenoxy 61 methyl phenoxy 62 methyl 3,5-dimethylphenoxy 63 methyl 3,5-dimethylphenoxy 64 methyl 3,5-dimethylphenoxy 65 methyl 3,5-dimethylphenoxy 66 methyl 3,5-dimethylphenyl)ethyl 67 methyl 3,5-dimethylphenyl)methoxy 68 methyl (3,5-dimethylphenyl)methoxy 69 methyl (3,5-dimethoxyphenyl)methoxy 60 methyl (3,5-dimethoxyphenyl)methoxy 61 methyl (3,5-dimethoxyphenyl)methoxy 62 methyl (3,5-dimethoxyphenyl)methoxy 63 methyl (3,5-dimethoxyphenyl)methoxy 64 methyl (3,5-dimethoxyphenyl)methoxy 65 methyl (3,5-dimethoxyphenyl)methoxy 66 methyl (3,5-dimethoxyphenyl)methoxy 67 methyl (3,5-dimethoxyphenyl)methoxy 68 methyl (2,6-bis(trifluoromethyl)phenoxy 69 methyl (2,6-bis(trifluoromethyl)phenoxy 70 methyl (2,6-bis(trifluoromethyl)phenoxy 71 methyl (2,6-bis(trifluoromethyl)phenoxy 72 methyl (2,6-dimethyl-4-pyridinyl)methoxy 73 methyl (2,6-dimethyl-4-pyridinyl)methoxy 74 methyl (2,6-dimethyl-4-pyridinyl)methoxy 75 methyl (2,6-dimethyl-4-pyridinyl)methoxy 76 methyl (2,6-dimethyl-4-pyridinyl)methoxy 77 methyl (2,6-dimethyl-4-pyridinyl)methoxy 78 methyl (2-methoxy-6-methyl-4-pyridinyl)methoxy 80 methyl (2-methoxy-6-methyl-1-phenoxyl)methoxy 81 methyl (2-methoxy-6-methyl-1-phenoxyl)methoxy 82 methyl (2-methyl-1-naphthalenyl)methoxy 83 methyl (2-methyl-1-naphthalenyl)methoxy 84 methyl (4-quinolinyl)methoxy 85 methyl (4-quinolinyl)methoxy 86 methyl (4-quinolinyl)methoxy 87 methyl 4-quinolinyl)methoxy 88 methyl (4-quinolinyl)methoxy 89 methyl 4-quinolinyl)methoxy 80 methyl 4-quinolinyl)methoxy 81 methyl 4-quinolinyl)methoxy 82 methyl 4-quinolinyl)methoxy 83 methyl 4-quinolinyl)methoxy 84 methyl 4-quinolinyl)methoxy 85 methyl 4-quinolinyl)methox	46	amino	(3,5-dimethyl-1-pyrazolyl)ethyl
49	47	amino	(1,3-benzodioxo-4-yl)methoxy
49	48	amino	(1,3,5-trimethyl-4-pyrazolyl)methoxy
Sol	49	amino	
51         amino         (4,5-dimethyl-2-thiazolyl) methoxy           52         amino         2-(2-oxazolyl) ethyl           53         methyl         methoxy           54         methyl         1-methylethyl           55         methyl         1-methylethoxy           56         methyl         phenyl           57         methyl         2-phenylethyl           58         methyl         2-phenylethyl           60         methyl         2-phenylethyl           61         methyl         2-phenylethenyl           61         methyl         2-phenylethenyl           62         methyl         2-phenylethenyl           63         methyl         2-jhenylethenyl           64         methyl         3,5-dimethylphenyl)methoxy           64         methyl         2-(3,5-dimethylphenyl)methoxy           65         methyl         (3,5-dimethoxyphenyl)methoxy           67         methyl         (3,5-dimethoxyphenyl)methoxy           68         methyl         3,5-dimethoxyphenyl)methoxy           69         methyl         2-(3,5-dimethyl-phenyl)methoxy           70         methyl         2,6-bis(trifluoromethyl)phenyl)methoxy           72 <td>50</td> <td></td> <td></td>	50		
52	51	amino	
S3	52		
1-methylethyl   1-methylethoxy   55 methyl   1-methylethoxy   56 methyl   phenyl   phenyl   57 methyl   phenoxy   2-phenylethyl   58 methyl   2-phenylethyl   2-phenylethyl   59 methyl   2-jhenylethenyl   60 methyl   2-phenylethenyl   61 methyl   phenoxymethyl   62 methyl   3,5-dimethylphenoxy   63 methyl   3,5-dimethylphenyl)methoxy   64 methyl   2-(3,5-dimethylphenyl)methoxy   65 methyl   2-(3,5-dimethylphenyl)methoxy   66 methyl   3,5-dimethoxyphenyl)methoxy   67 methyl   3,5-dimethoxyphenyl)methoxy   68 methyl   3,5-dimethoxyphenyl)methoxy   69 methyl   3,5-dimethoxyphenyl)methoxy   69 methyl   3,5-dimethoxyphenyl)methoxy   70 methyl   3,5-dishlorophenyl)methoxy   71 methyl   3,5-dishlorophenyl)methoxy   72 methyl   2,6-bis(trifluoromethyl)phenyl)methoxy   73 methyl   2,6-bis(trifluoromethyl)phenyl)methoxy   74 methyl   5-methyl-3-(methylsulfonyl)phenoxy   75 methyl   5-methyl-3-(methylsulfonyl)phenoxy   76 methyl   2,6-dimethyl-4-pyridinyl)methoxy   77 methyl   2,6-dimethyl-4-pyridinyl)methoxy   78 methyl   2,6-dimethyl-4-pyridinyl)methoxy   79 methyl   2,6-dimethyl-4-pyridinyl)methoxy   79 methyl   2-methoxy-6-methyl-4-pyridinyl)methoxy   79 methyl   1-naphthalenyl)methoxy   80 methyl   (2-methoxy-6-methyl-1-naphthalenyl)methoxy   81 methyl   (2-methyl-1-naphthalenyl)methoxy   82 methyl   (4-quinolinyl)methoxy   83 methyl   (4-quinolinyl)methoxy   84 methyl   (4-methyl-2-naphthalenyl)methoxy   85 methyl   (4-methyl-2-naphthalenyl)methoxy   86 methyl   (4-quinolinyl)methoxy   87 methyl   (4-methyl-2-naphthalenyl)methoxy   88 methyl   (4-methyl-2-naphthalenyl)methoxy   89 methyl   (2-methoxy-4-quinolinyl)methoxy   90 methyl   (2-methoxy-4-quinolinyl)methoxy   90 methyl   (2-methoxy-4-quinolinyl)methoxy   90 methyl   (2-methoxy-4-quinolinyl)methoxy   90 methyl   (2-methoxy-4-quinolinyl)methoxy   90 methyl   (2-methoxy-4-quinolinyl)methoxy   90 methyl   (2-methoxy-4-quinolinyl)methoxy   90 methyl   (2-methoxy-4-quinolinyl)methoxy   90 methyl   (2-methoxy-4-quinolinyl)methoxy   90 methyl   2-(1,2,3-benzotriaz	53	T	
1-methylethoxy   56			
S6			
phenoxy   phenoxy   2-phenylethyl   2-yhenylethyl   2-yhenylethyl   2-yhenylethyl   2-yhenylethenyl   60   methyl   2-phenylethenyl   2-phenylethenyl   61   methyl   phenoxymethyl   3,5-dimethylphenoxy   62   methyl   3,5-dimethylphenoxy   63   methyl   3,5-dimethylphenyl   methoxy   64   methyl   2-(3,5-dimethylphenyl)   methoxy   65   methyl   2-(3,5-dimethylphenyl)   methoxy   66   methyl   3-amino-5-methylphenyl)   methoxy   67   methyl   3,5-dimethoxyphenoxy   68   methyl   3,5-dimethoxyphenoxy   69   methyl   3,5-dimethoxyphenyl)   methoxy   69   methyl   3,5-dimethoxyphenyl)   methoxy   71   methyl   3,5-dibromophenoxy   72   methyl   3,5-dibromophenoxy   73   methyl   2,6-bis(trifluoromethyl)   methoxy   74   methyl   5-methyl-3-(methylsulfonyl)   methoxy   75   methyl   5-methyl-3-(methylsulfonyl)   methoxy   76   methyl   2,6-dimethyl-4-pyridinyl)   methoxy   77   methyl   2,6-dimethyl-4-pyridinyl)   methoxy   78   methyl   2,6-dimethyl-4-pyridinyl)   methoxy   79   methyl   2,6-dimethyl-4-pyridinyl)   methoxy   79   methyl   2,6-dimethyl-4-pyridinyl)   methoxy   79   methyl   2,6-dimethyl-4-pyridinyl)   methoxy   79   methyl   2,6-dimethyl-4-pyridinyl)   methoxy   79   methyl   2,6-dimethyl-4-pyridinyl)   methoxy   79   methyl   2-methoxy-6-methyl-1   methoxy   80   methyl   (2-methoxy-6-methyl)   methoxy   81   methyl   (2-methyl-1-naphthalenyl)   methoxy   82   methyl   (2-methyl-1-naphthalenyl)   methoxy   84   methyl   (4-quinolinyl)   methoxy   85   methyl   (4-methyl-2-naphthalenyl)   methoxy   86   methyl   4-quinolinyl)   methoxy   87   methyl   4-quinolinyl)   methoxy   88   methyl   4-quinolinyl)   methoxy   89   methyl   4-quinolinyl)   methoxy   90   methyl   2-methyl-4-quinolinyl)   methoxy   90			
Second			
Section			
60 methyl 2-phenylethenyl phenoxymethyl 61 methyl 3,5-dimethylphenoxy 62 methyl 3,5-dimethylphenoxy 63 methyl 2-(3,5-dimethylphenyl)methoxy 64 methyl 2-(3,5-dimethylphenyl)ethyl 65 methyl 2-(3,5-dimethylphenyl)ethenyl 65 methyl 3,5-dimethylphenyl)methoxy 66 methyl (3-amino-5-methylphenyl)methoxy 67 methyl (3,5-dimethoxyphenyl)methoxy 68 methyl 3,5-dimethoxyphenoxy 69 methyl 2-(3,5-dimethoxyphenyl)ethyl 70 methyl 3,5-dichlorophenyl)methoxy 71 methyl 3,5-dichlorophenyl)methoxy 72 methyl [2,6-bis(trifluoromethyl)phenyl)methoxy 73 methyl [5-methyl-3-(methylsulfonyl)phenyl)methoxy 74 methyl [5-methyl-3-(methylsulfonyl)phenoxy 75 methyl 5-methyl-3-(methylsulfonyl)phenoxy 76 methyl (2,6-dimethyl-4-pyridinyl)methoxy 77 methyl 2,6-dichloro-4-pyridinyl)methoxy 78 methyl (2,6-dichloro-4-pyridinyl)methoxy 79 methyl (2-methoxy-6-methyl-4-pyridinyl)methoxy 80 methyl (1-naphthalenyl)methoxy 81 methyl (2-methoxy-6-methyl-1-naphthalenyl)methoxy 82 methyl (2-naphthalenyl)methoxy 83 methyl (2-methyl-1-naphthalenyl)methoxy 84 methyl (4-methyl-2-naphthalenyl)methoxy 85 methyl (4-quinolinyl)methoxy 86 methyl (4-quinolinyl)methoxy 87 methyl (4-quinolinyl)methoxy 88 methyl (4-quinolinyl)methoxy 89 methyl (4-quinolinyl)methoxy 90 methyl (2-methyl-4-quinolinyl)methoxy 91 methyl (2-methyl-4-quinolinyl)methoxy 92 methyl (2-methyl-4-quinolinyl)methoxy 92 methyl (2-methyl-4-quinolinyl)methoxy 92 methyl (2-methyl-4-quinolinyl)methoxy 92 methyl (2-methyl-4-quinolinyl)methoxy 92 methyl (2-methyl-4-quinolinyl)methoxy 92 methyl (2-methyl-4-quinolinyl)methoxy 92 methyl (2-methyl-4-quinolinyl)methoxy 92 methyl (2-methyl-4-quinolinyl)methoxy 92 methyl 92 methyl 93 methyl 94 methyl 94 methyl 94 methyl 94 methyl 94 methyl 94 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 methyl 95 m	-		
61         methyl         phenoxymethyl           62         methyl         3,5-dimethylphenoxy           63         methyl         (3,5-dimethylphenyl)methoxy           64         methyl         2-(3,5-dimethylphenyl)ethenyl           65         methyl         2-(3,5-dimethylphenyl)methoxy           66         methyl         (3,5-dimethoxyphenyl)methoxy           67         methyl         3,5-dimethoxyphenyl)ethyl           68         methyl         2-(3,5-dimethoxyphenyl)methoxy           69         methyl         2-(3,5-dimethoxyphenyl)methoxy           70         methyl         (3,5-dichlorophenyl)methoxy           71         methyl         (3,5-dichlorophenyl)methoxy           71         methyl         (3,5-discomphenoxy           71         methyl         2,6-bis(trifluoromethyl)methoxy           72         methyl         2,6-bis(trifluoromethyl)methoxy           73         methyl         2,6-bis(trifluoromethyl)methoxy           74         methyl         5-methyl-3-(methylsulfonyl)methoxy           75         methyl         (2,6-dimethyl-4-pyridinyl)methoxy           76         methyl         (2,6-dimethyl-4-pyridinyl)methoxy           78         methyl         (2,6-dichloro-4-pyridinyl)			
62         methyl         3,5-dimethylphenoxy           63         methyl         (3,5-dimethylphenyl)methoxy           64         methyl         2-(3,5-dimethylphenyl)ethyl           65         methyl         (3-amino-5-methylphenyl)methoxy           66         methyl         (3,5-dimethoxyphenyl)methoxy           67         methyl         3,5-dimethoxyphenyl)methoxy           68         methyl         2-(3,5-dimethoxyphenyl)methoxy           69         methyl         (3,5-dichlorophenyl)methoxy           70         methyl         (3,5-dichlorophenyl)methoxy           71         methyl         (3,5-dichlorophenyl)methoxy           71         methyl         (2,6-bis(trifluoromethyl)phenyl)methoxy           73         methyl         (2,6-bis(trifluoromethyl)phenyl)methoxy           74         methyl         (5-methyl-3-(methylsulfonyl)phenyl)methoxy           75         methyl         (2,6-dimethyl-4-pyridinyl)methoxy           76         methyl         (2,6-dimethyl-4-pyridinyl)methoxy           78         methyl         (2,6-dimethyl-4-pyridinyl)methoxy           79         methyl         (2-methoxy-6-methyl-4-pyridinyl)methoxy           80         methyl         (1-naphthalenyl)methoxy           81			
63         methyl         (3,5-dimethylphenyl)methoxy           64         methyl         2-(3,5-dimethylphenyl)ethyl           65         methyl         (3,5-dimethylphenyl)methoxy           66         methyl         (3,5-dimethoxyphenyl)methoxy           67         methyl         (3,5-dimethoxyphenyl)methoxy           68         methyl         3,5-dimethoxyphenyl)methoxy           69         methyl         2-(3,5-dimethoxyphenyl)methoxy           70         methyl         (3,5-dimethoxyphenyl)methoxy           70         methyl         (3,5-dimethoxyphenyl)methoxy           71         methyl         (3,5-dimethoxyphenyl)methoxy           71         methyl         (3,5-dimethoxyphenyl)methoxy           71         methyl         (2,6-bis(trifluoromethyl)methoxy           73         methyl         (2,6-bis(trifluoromethyl)phenyl)methoxy           74         methyl         (5-methyl-3-(methylsulfonyl)phenyl)methoxy           75         methyl         (2,6-dimethyl-4-pyridinyl)methoxy           76         methyl         (2,6-dimethyl-4-pyridinyl)methoxy           78         methyl         (2,6-dichloro-4-pyridinyl)methoxy           80         methyl         (2-methoxy-6-methyl-4-pyridinyl)methoxy           81			
64         methyl         2-(3,5-dimethylphenyl)ethyl           65         methyl         2-(3,5-dimethylphenyl)ethenyl           66         methyl         (3-amino-5-methylphenyl)methoxy           67         methyl         (3,5-dimethoxyphenyl)methoxy           68         methyl         2-(3,5-dimethoxyphenoxy           69         methyl         (3,5-dichlorophenyl)methoxy           70         methyl         (3,5-dichlorophenyl)methoxy           71         methyl         (3,5-dibromophenoxy           71         methyl         (3,5-dibromophenoxy           72         methyl         (2,6-bis(trifluoromethyl)methoxy           73         methyl         (2,6-bis(trifluoromethyl)methoxy           74         methyl         (5-methyl-3-(methylsulfonyl)methoxy           75         methyl         (5-methyl-3-(methylsulfonyl)methoxy           76         methyl         (2,6-dimethyl-4-pyridinyl)methoxy           78         methyl         (2,6-dichloro-4-pyridinyl)methoxy           79         methyl         (2-methoxy-6-methyl-4-pyridinyl)methoxy           80         methyl         (1-naphthalenyl)methoxy           81         methyl         (2-methyl-1-naphthalenyl)methoxy           82         methyl         <			
65         methyl         (3-amino-5-methylphenyl)methoxy           66         methyl         (3,5-dimethoxyphenyl)methoxy           67         methyl         3,5-dimethoxyphenyl)methoxy           68         methyl         2-(3,5-dimethoxyphenoxy           69         methyl         2-(3,5-dichlorophenyl)methoxy           70         methyl         (3,5-dichlorophenyl)methoxy           71         methyl         3,5-dibromophenoxy           72         methyl         [2,6-bis(trifluoromethyl)phenyl)methoxy           73         methyl         2,6-bis(trifluoromethyl)phenoxy           74         methyl         [5-methyl-3-(methylsulfonyl)phenoxy           75         methyl         [5-methyl-3-(methylsulfonyl)phenoxy           76         methyl         (2,6-dimethyl-4-pyridinyl)methoxy           77         methyl         (2,6-dimethyl-4-pyridinyl)methoxy           79         methyl         (2,6-dichloro-4-pyridinyl)methoxy           80         methyl         (2-methoxy-6-methyl-4-pyridinyl)methoxy           81         methyl         (1-naphthalenyl)methoxy           82         methyl         (2-methyl-1-naphthalenyl)methoxy           83         methyl         (2-methyl-1-naphthalenyl)methoxy           84         <			
66methyl(3-amino-5-methylphenyl)methoxy67methyl(3,5-dimethoxyphenyl)methoxy68methyl3,5-dimethoxyphenoxy69methyl2-(3,5-dimethoxyphenyl)ethyl70methyl(3,5-dichlorophenyl)methoxy71methyl3,5-dibromophenoxy72methyl[2,6-bis(trifluoromethyl)phenyl]methoxy73methyl2,6-bis(trifluoromethyl)phenoxy74methyl[5-methyl-3-(methylsulfonyl)phenyl]methoxy75methyl5-methyl-3-(methylsulfonyl)phenoxy76methyl(2,6-dimethyl-4-pyridinyl)methoxy77methyl2,6-dimethyl-4-pyridinyl)methoxy78methyl(2,6-dichloro-4-pyridinyl)methoxy79methyl(2-methoxy-6-methyl-4-pyridinyl)methoxy80methyl(1-naphthalenyl)methoxy81methyl1-naphthalenyl)methoxy82methyl(2-methyl-1-naphthalenyl)methoxy83methyl(2-methyl-1-naphthalenyl)methoxy84methyl(4-methyl-2-naphthalenyl)methoxy85methyl(4-quinolinyl)methoxy86methyl4-quinolinyloxymethyl87methyl(4-quinolinyloxymethyl88methyl(2-methyl-4-quinolinyl)methoxy90methyl2-methyl-4-quinolinyl)methoxy91methyl(2-methoxy-4-quinolinyl)methoxy92methyl(2-methoxy-4-quinolinyl)methoxy			
67         methyl         (3,5-dimethoxyphenyl)methoxy           68         methyl         3,5-dimethoxyphenoxy           69         methyl         2-(3,5-dimethoxyphenyl)ethyl           70         methyl         (3,5-dichlorophenyl)methoxy           71         methyl         3,5-dibromophenoxy           71         methyl         (2,6-bis(trifluoromethyl)phenyl)methoxy           73         methyl         (2,6-bis(trifluoromethyl)phenyl)methoxy           74         methyl         (5-methyl-3-(methylsulfonyl)phenyl)methoxy           75         methyl         (5-methyl-3-(methylsulfonyl)phenoxy           76         methyl         (2,6-dimethyl-4-pyridinyl)methoxy           78         methyl         (2,6-dimethyl-4-pyridinyl)methoxy           79         methyl         (2-methoxy-6-methyl-4-pyridinyl)methoxy           80         methyl         (2-methyl-4-pyridinyl)methoxy           81         methyl         (1-naphthalenyl)methoxy           82         methyl         (2-methyl-1-naphthalenyl)methoxy           83         methyl         (2-methyl-1-naphthalenyl)methoxy           84         methyl         (4-methyl-2-naphthalenyl)methoxy           85         methyl         (4-quinolinyl)methoxy           86			
68         methyl         3,5-dimethoxyphenoxy           69         methyl         2-(3,5-dimethoxyphenyl) ethyl           70         methyl         (3,5-dichlorophenyl)methoxy           71         methyl         3,5-dibromophenoxy           72         methyl         [2,6-bis(trifluoromethyl)phenyl)methoxy           73         methyl         2,6-bis(trifluoromethyl)phenoxy           74         methyl         2,6-bis(trifluoromethyl)phenoxy           74         methyl         5-methyl-3-(methylsulfonyl)phenoxy           75         methyl         5-methyl-3-(methylsulfonyl)phenoxy           76         methyl         (2,6-dimethyl-4-pyridinyl)methoxy           77         methyl         (2,6-dimethyl-4-pyridinyl)methoxy           78         methyl         (2,6-dichloro-4-pyridinyl)methoxy           79         methyl         (2-methoxy-6-methyl-4-pyridinyl)methoxy           80         methyl         (1-naphthalenyl)methoxy           81         methyl         (2-methyl-1-naphthalenyl)methoxy           82         methyl         (2-methyl-1-naphthalenyl)methoxy           84         methyl         (4-methyl-2-naphthalenyl)methoxy           85         methyl         (4-quinolinyl)methoxy           86         meth			
69methyl2-(3,5-dimethoxyphenyl)ethyl70methyl(3,5-dichlorophenyl)methoxy71methyl3,5-dibromophenoxy72methyl[2,6-bis(trifluoromethyl)phenyl]methoxy73methyl2,6-bis(trifluoromethyl)phenoxy74methyl[5-methyl-3-(methylsulfonyl)phenyl]methoxy75methyl5-methyl-3-(methylsulfonyl)phenoxy76methyl(2,6-dimethyl-4-pyridinyl)methoxy77methyl2,6-dimethyl-4-pyridinyl)methoxy78methyl(2,6-dichloro-4-pyridinyl)methoxy79methyl(2-methoxy-6-methyl-4-pyridinyl)methoxy80methyl(1-naphthalenyl)methoxy81methyl(2-methyl-1-naphthalenyl)methoxy82methyl(2-methyl-1-naphthalenyl)methoxy83methyl(4-methyl-2-naphthalenyl)methoxy84methyl(4-quinolinyl)methoxy85methyl(4-quinolinyl)methoxy86methyl4-quinolinyloxy87methyl(4-quinolinyloxy)methyl89methyl(2-methyl-4-quinolinyl)methoxy90methyl2-methyl-4-quinolinyloxy91methyl(2-methoxy-4-quinolinyl)methoxy92methyl2-methyl-4-quinolinyl)methoxy92methyl(2-methoxy-4-quinolinyl)methoxy92methyl2-methyl-4-quinolinyl)methoxy			
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73         methyl         2,6-bis(trifluoromethyl)phenoxy           74         methyl         [5-methyl-3-(methylsulfonyl)phenyl]methoxy           75         methyl         5-methyl-3-(methylsulfonyl)phenoxy           76         methyl         (2,6-dimethyl-4-pyridinyl)methoxy           77         methyl         (2,6-dichloro-4-pyridinyl)methoxy           78         methyl         (2-methoxy-6-methyl-4-pyridinyl)methoxy           80         methyl         (1-naphthalenyl)methoxy           81         methyl         (2-maphthalenyl)methoxy           82         methyl         (2-maphthalenyl)methoxy           83         methyl         (2-methyl-1-naphthalenyl)methoxy           84         methyl         (4-quinolinyl)methoxy           85         methyl         (4-quinolinyl)methoxy           86         methyl         4-quinolinyloxy           87         methyl         (4-quinolinyloxy)methyl           89         methyl         (2-methyl-4-quinolinyl)methoxy           90         methyl         2-methyl-4-quinolinyl)methoxy           91         methyl         (2-methoxy-4-quinolinyl)methoxy           92         methyl         2-(1,2,3-benzotriazol-1-yl)ethyl			
74methyl[5-methyl-3-(methylsulfonyl)phenyl]methoxy75methyl5-methyl-3-(methylsulfonyl)phenoxy76methyl(2,6-dimethyl-4-pyridinyl)methoxy77methyl2,6-dimethyl-4-pyridinyl)methoxy78methyl(2,6-dichloro-4-pyridinyl)methoxy79methyl(2-methoxy-6-methyl-4-pyridinyl)methoxy80methyl(1-naphthalenyl)methoxy81methyl1-naphthalenyl)methoxy82methyl(2-methyl-1-naphthalenyl)methoxy83methyl(4-methyl-2-naphthalenyl)methoxy84methyl(4-quinolinyl)methoxy85methyl(4-quinolinyl)methoxy86methyl4-quinolinyloxy87methyl(4-quinolinyloxy)methyl89methyl(2-methyl-4-quinolinyl)methoxy90methyl2-methyl-4-quinolinyloxy91methyl(2-methoxy-4-quinolinyl)methoxy92methyl2-methyl-4-quinolinyl)methoxy92methyl2-methoxy-4-quinolinyl)methoxy			
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85         methyl         (4-quinolinyl)methoxy           86         methyl         1-(4-quinolinyl)ethoxy           87         methyl         4-quinolinyloxy           88         methyl         (4-quinolinyloxy)methyl           89         methyl         (2-methyl-4-quinolinyl)methoxy           90         methyl         2-methyl-4-quinolinyloxy           91         methyl         (2-methoxy-4-quinolinyl)methoxy           92         methyl         2-(1,2,3-benzotriazol-1-yl)ethyl			
86         methyl         1-(4-quinolinyl)ethoxy           87         methyl         4-quinolinyloxy           88         methyl         (4-quinolinyloxy)methyl           89         methyl         (2-methyl-4-quinolinyl)methoxy           90         methyl         2-methyl-4-quinolinyloxy           91         methyl         (2-methoxy-4-quinolinyl)methoxy           92         methyl         2-(1,2,3-benzotriazol-1-yl)ethyl			
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92 methyl 2-(1,2,3-benzotriazol-1-yl)ethyl			
yo metnyi (2-benzimidazolyi)methoxy			
	93	metnyı	(2-penzimidazolyi)methoxy

94	methyl	(1,4-dimethyl-5-imidazolyl)methoxy
95	methyl	(3,5-dimethyl-4-isoxazolyl)methoxy
96	methyl	(4,5-dimethyl-2-oxazolyl)methoxy
97	methyl	(2,5-dimethyl-4-thiazolyl)methoxy
98	methyl	(3,5-dimethyl-1-pyrazolyl)ethyl
99	methyl	(1,3-benzodioxo-4-yl)methoxy
100	methyl	(1,3,5-trimethyl-4-pyrazolyl)methoxy
101	methyl	(2,6-dimethyl-4-pyrimidinyl)methoxy
102	methyl	(4,5-dimethyl-2-furanyl)methoxy
103	methyl	(4,5-dimethyl-2-thiazolyl)methoxy
104	methyl	2-(2-oxazolyl)ethyl

### TABLE 4

OMe
$$HO \longrightarrow X \longrightarrow R^2 \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} \longrightarrow R^{10} 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10

5

Ex #	R ²	R ¹⁰
1	amino	methoxy
2	amino	1-methylethyl
3	amino	1-methylethoxy
4	amino	phenyl
5	amino	phenoxy
6	amino	2-phenylethyl
7	amino	2-(3,5-dimethylphenyl)ethyl
8	amino	2-phenylethenyl
9	amino	phenoxymethyl
10	amino	3,5-dimethylphenoxy
11	amino	(3,5-dimethylphenyl)methoxy
12	amino	2-(3,5-dimethylphenyl)ethyl
13	amino	2-(3,5-dimethylphenyl)ethenyl
14	amino	(3-amino-5-methylphenyl)methoxy
15	amino	(3,5-dimethoxyphenyl)methoxy

16		<del>,</del>	
18	16	amino	3,5-dimethoxyphenoxy
19		amino	<del></del>
20	18	amino	(3,5-dichlorophenyl)methoxy
21	19	amino	
22	20	amino	[2,6-bis(trifluoromethyl)phenyl]methoxy
23         amino         5-methyl-3-(methylsulfonyl)methoxy           24         amino         (2,6-dimethyl-4-pyridinyl)methoxy           25         amino         (2,6-dichloro-4-pyridinyl)methoxy           26         amino         (2,6-dichloro-4-pyridinyl)methoxy           27         amino         (2-methoxy-6-methyl-4-pyridinyl)methoxy           28         amino         (1-naphthalenyl)methoxy           29         amino         (1-naphthalenyl)methoxy           30         amino         (2-methyl-1-naphthalenyl)methoxy           31         amino         (2-methyl-1-naphthalenyl)methoxy           32         amino         (4-quinolinyl)methoxy           34         amino         (4-quinolinyl)methoxy           35         amino         (4-quinolinyloxy)methyl           36         amino         (2-methyl-4-quinolinyl)methoxy           37         amino         (2-methyl-4-quinolinyl)methoxy           40         amino         (2-methyl-4-quinolinyl)methoxy           41         amino         (2-methyl-4-quinolinyl)methoxy           42         amino         (2-methyl-4-quinolinyl)methoxy           43         amino         (2-methyl-4-quinolinyl)methoxy           44         amino         (3,5-dimethyl	21	amino	2,6-bis(trifluoromethyl)phenoxy
24         amino         (2,6-dimethyl-4-pyridinyl)methoxy           25         amino         (2,6-dichloro-4-pyridinyl)methoxy           26         amino         (2,6-dichloro-4-pyridinyl)methoxy           27         amino         (2-methoxy-6-methyl-4-pyridinyl)methoxy           28         amino         (1-naphthalenyl)methoxy           30         amino         (1-naphthalenyl)methoxy           30         amino         (2-methyl-1-naphthalenyl)methoxy           31         amino         (4-methyl-2-naphthalenyl)methoxy           32         amino         (4-quinolinyl)methoxy           34         amino         1-(4-quinolinyl)xymethyl           35         amino         (4-quinolinyloxymethyl           36         amino         (2-methyl-4-quinolinyl)methoxy           39         amino         (2-methyl-4-quinolinyl)methoxy           40         amino         (2-(1,2,3-benzotriazol-1-yl)ethyl           41         amino         (2-benzimidazolyl)methoxy           42         amino         (3,5-dimethyl-4-indazolyl)methoxy           43         amino         (3,5-dimethyl-2-oxazolyl)methoxy           44         amino         (3,5-dimethyl-2-pyrazolyl)methoxy           45         amino         (2,5-dime	22	amino	[5-methyl-3-(methylsulfonyl)phenyl]methoxy
25	23	amino	5-methyl-3-(methylsulfonyl)phenoxy
26         amino         (2-methoxy-6-methyl-4-pyridinyl)methoxy           27         amino         (2-methoxy-6-methyl-4-pyridinyl)methoxy           28         amino         (1-naphthalenyl)methoxy           29         amino         (2-naphthalenyl)methoxy           30         amino         (2-methyl-1-naphthalenyl)methoxy           31         amino         (4-quinolinyl)methoxy           32         amino         (4-quinolinyl)methoxy           34         amino         1-(4-quinolinyl)xymethyl           35         amino         (4-quinolinyloxymethyl)methoxy           36         amino         (2-methyl-4-quinolinyl)methoxy           38         amino         (2-methoxy-4-quinolinyl)methoxy           40         amino         (2-methoxy-4-quinolinyl)methoxy           41         amino         (2-benzimidazolyl)methoxy           42         amino         (2-benzimidazolyl)methoxy           43         amino         (3,5-dimethyl-4-isoxazolyl)methoxy           44         amino         (4,5-dimethyl-2-oxazolyl)methoxy           45         amino         (2,5-dimethyl-2-pyrazolyl)ethyl           47         amino         (3,5-dimethyl-2-pyrazolyl)methoxy           48         amino         (4,5-dimethyl-2-	24	amino	(2,6-dimethyl-4-pyridinyl)methoxy
27	25	amino	2,6-dimethyl-4-pyridinyloxy
28	26	amino	(2,6-dichloro-4-pyridinyl)methoxy
28	27	amino	(2-methoxy-6-methyl-4-pyridinyl)methoxy
29	28	amino	
30	29	<del></del>	<del>                                     </del>
31	30	amino	
32			
33		<del></del>	
34         amino         1-(4-quinolinyl) ethoxy           35         amino         4-quinolinyloxy           36         amino         (4-quinolinyloxy)methyl           37         amino         (2-methyl-4-quinolinyl)methoxy           38         amino         2-methyl-4-quinolinyl)methoxy           39         amino         (2-methoxy-4-quinolinyl)methoxy           40         amino         (2-loenzimidazolyl)methoxy           40         amino         (2-benzimidazolyl)methoxy           41         amino         (1,4-dimethyl-5-imidazolyl)methoxy           42         amino         (3,5-dimethyl-4-isoxazolyl)methoxy           43         amino         (3,5-dimethyl-1-apyrazolyl)methoxy           44         amino         (2,5-dimethyl-2-oxazolyl)methoxy           45         amino         (1,3-benzodioxo-4-yl)methoxy           46         amino         (1,3-benzodioxo-4-yl)methoxy           48         amino         (1,3-5-trimethyl-4-pyrazolyl)methoxy           49         amino         (2,6-dimethyl-2-furanyl)methoxy           50         amino         (4,5-dimethyl-2-furanyl)methoxy           51         amino         (4,5-dimethyl-2-furanyl)methoxy           52         amino         (2-coxazolyl)methox		<del></del>	
35		<del></del>	<del> </del>
36         amino         (2-methyl-4-quinolinyl)methoxy           37         amino         (2-methyl-4-quinolinyl)methoxy           38         amino         2-methyl-4-quinolinyl)methoxy           39         amino         (2-methoxy-4-quinolinyl)methoxy           40         amino         (2-benzimidazolyl)methoxy           41         amino         (2-benzimidazolyl)methoxy           42         amino         (3,5-dimethyl-5-imidazolyl)methoxy           43         amino         (3,5-dimethyl-4-isoxazolyl)methoxy           44         amino         (2,5-dimethyl-4-thiazolyl)methoxy           45         amino         (3,5-dimethyl-4-thiazolyl)methoxy           46         amino         (3,5-dimethyl-4-pyrazolyl)ethyl           47         amino         (1,3-benzodioxo-4-yl)methoxy           48         amino         (2,6-dimethyl-4-pyrazolyl)methoxy           49         amino         (2,6-dimethyl-4-pyrimidinyl)methoxy           50         amino         (4,5-dimethyl-4-pyrimidinyl)methoxy           51         amino         (4,5-dimethyl-2-thiazolyl)methoxy           52         amino         (4,5-dimethyl-2-thiazolyl)methoxy           53         methyl         1-methylethyl           54         methyl			
37         amino         (2-methyl-4-quinolinyl)methoxy           38         amino         2-methyl-4-quinolinyloxy           39         amino         (2-methoxy-4-quinolinyl)methoxy           40         amino         2-(1,2,3-benzotriazol-1-yl)ethyl           41         amino         (2-benzimidazolyl)methoxy           42         amino         (1,4-dimethyl-5-imidazolyl)methoxy           43         amino         (3,5-dimethyl-4-isoxazolyl)methoxy           44         amino         (4,5-dimethyl-2-oxazolyl)methoxy           45         amino         (2,5-dimethyl-4-thiazolyl)methoxy           46         amino         (3,5-dimethyl-4-pyrazolyl)methoxy           47         amino         (1,3-benzodioxo-4-yl)methoxy           48         amino         (1,3-5-trimethyl-4-pyrazolyl)methoxy           49         amino         (2,6-dimethyl-2-pyrazolyl)methoxy           50         amino         (4,5-dimethyl-2-furanyl)methoxy           51         amino         (4,5-dimethyl-2-furanyl)methoxy           52         amino         (4,5-dimethyl-2-furanyl)methoxy           53         methyl         methylethyl           54         methyl         nethylethylethyl           55         methyl         nethylethyle			
38         amino         2-methyl-4-quinolinyloxy           39         amino         (2-methoxy-4-quinolinyl)methoxy           40         amino         2-(1,2,3-benzotriazol-1-yl)ethyl           41         amino         (2-benzimidazolyl)methoxy           42         amino         (3,5-dimethyl-5-imidazolyl)methoxy           43         amino         (3,5-dimethyl-4-isoxazolyl)methoxy           44         amino         (2,5-dimethyl-2-oxazolyl)methoxy           45         amino         (2,5-dimethyl-1-pyrazolyl)methoxy           46         amino         (3,5-dimethyl-1-pyrazolyl)methoxy           47         amino         (1,3,5-trimethyl-4-pyrazolyl)methoxy           48         amino         (2,6-dimethyl-4-pyrazolyl)methoxy           49         amino         (2,6-dimethyl-4-pyraindinyl)methoxy           50         amino         (4,5-dimethyl-2-furanyl)methoxy           51         amino         (4,5-dimethyl-2-furanyl)methoxy           52         amino         (4,5-dimethyl-2-furanyl)methoxy           53         methyl         nethylethyl           54         methyl         nethylethyl           55         methyl         nethylethylethyl           56         methyl         nethylethylethylethylet			
39         amino         (2-methoxy-4-quinolinyl)methoxy           40         amino         2-(1,2,3-benzotriazol-1-yl)ethyl           41         amino         (2-benzimidazolyl)methoxy           42         amino         (1,4-dimethyl-5-imidazolyl)methoxy           43         amino         (3,5-dimethyl-4-isoxazolyl)methoxy           44         amino         (4,5-dimethyl-2-oxazolyl)methoxy           45         amino         (2,5-dimethyl-4-thiazolyl)methoxy           46         amino         (3,5-dimethyl-1-pyrazolyl)ethyl           47         amino         (1,3-benzodioxo-4-yl)methoxy           48         amino         (2,6-dimethyl-1-pyrazolyl)methoxy           49         amino         (2,6-dimethyl-4-pyrimidinyl)methoxy           50         amino         (4,5-dimethyl-2-furanyl)methoxy           51         amino         (4,5-dimethyl-2-furanyl)methoxy           52         amino         (4,5-dimethyl-2-furanyl)methoxy           53         methyl         nethoxy           54         methyl         nethylethyl           55         methyl         nethylethylethylethylethyl           56         methyl         phenylethyl           57         methyl         2-jhenylethyl			•
40         amino         2-(1,2,3-benzotriazol-1-yl)ethyl           41         amino         (2-benzimidazolyl)methoxy           42         amino         (1,4-dimethyl-5-imidazolyl)methoxy           43         amino         (3,5-dimethyl-4-isoxazolyl)methoxy           44         amino         (2,5-dimethyl-2-oxazolyl)methoxy           45         amino         (2,5-dimethyl-1-pyrazolyl)ethyl           46         amino         (1,3-benzodioxo-4-yl)methoxy           48         amino         (1,3-benzodioxo-4-yl)methoxy           49         amino         (2,6-dimethyl-1-pyrazolyl)methoxy           49         amino         (2,6-dimethyl-2-primidinyl)methoxy           50         amino         (4,5-dimethyl-2-furanyl)methoxy           51         amino         (4,5-dimethyl-2-furanyl)methoxy           52         amino         (2-(2-oxazolyl)ethyl           53         methyl         1-methylethyl           54         methyl         1-methylethoxy           54         methyl         1-methylethoxy           55         methyl         1-methylethyl           56         methyl         2-phenylethyl           57         methyl         2-phenylethyl           60         meth			
41         amino         (2-benzimidazolyl)methoxy           42         amino         (1,4-dimethyl-5-imidazolyl)methoxy           43         amino         (3,5-dimethyl-4-isoxazolyl)methoxy           44         amino         (4,5-dimethyl-2-oxazolyl)methoxy           45         amino         (2,5-dimethyl-4-thiazolyl)methoxy           46         amino         (3,5-dimethyl-1-pyrazolyl)ethyl           47         amino         (1,3-benzodioxo-4-yl)methoxy           48         amino         (2,6-dimethyl-4-pyrazolyl)methoxy           49         amino         (2,6-dimethyl-4-pyrazolyl)methoxy           50         amino         (4,5-dimethyl-2-furanyl)methoxy           51         amino         (4,5-dimethyl-2-furanyl)methoxy           52         amino         (4,5-dimethyl-2-furanyl)methoxy           53         methyl         nethoxy           54         methyl         1-methylethyl           55         methyl         1-methylethoxy           56         methyl         1-methylethoxy           57         methyl         2-phenylethyl           59         methyl         2-phenylethyl           60         methyl         2-phenylethoxyl           61         methyl			
42         amino         (1,4-dimethyl-5-imidazolyl)methoxy           43         amino         (3,5-dimethyl-4-isoxazolyl)methoxy           44         amino         (4,5-dimethyl-2-oxazolyl)methoxy           45         amino         (2,5-dimethyl-4-thiazolyl)methoxy           46         amino         (3,5-dimethyl-1-pyrazolyl)ethyl           47         amino         (1,3-benzodioxo-4-yl)methoxy           48         amino         (1,3,5-trimethyl-4-pyrazolyl)methoxy           49         amino         (2,6-dimethyl-2-pyrazolyl)methoxy           50         amino         (4,5-dimethyl-2-furanyl)methoxy           51         amino         (4,5-dimethyl-2-furanyl)methoxy           52         amino         (4,5-dimethyl-2-furanyl)methoxy           53         methyl         methoxy           54         methyl         nethylethyl           55         methyl         nethylethylethoxy           56         methyl         nethylethylethylethyl           57         methyl         2-phenylethenyl           59         methyl         2-phenylethenyl           60         methyl         2-phenylethenyl           61         methyl         3,5-dimethylphenyl)methoxy           63			
43         amino         (3,5-dimethyl-4-isoxazolyl)methoxy           44         amino         (4,5-dimethyl-2-oxazolyl)methoxy           45         amino         (2,5-dimethyl-4-thiazolyl)methoxy           46         amino         (3,5-dimethyl-1-pyrazolyl)ethyl           47         amino         (1,3-benzodioxo-4-yl)methoxy           48         amino         (1,3,5-trimethyl-4-pyrazolyl)methoxy           49         amino         (2,6-dimethyl-2-furanyl)methoxy           50         amino         (4,5-dimethyl-2-furanyl)methoxy           51         amino         (4,5-dimethyl-2-furanyl)methoxy           52         amino         (2-(2-oxazolyl)methoxy           53         methyl         2-(2-oxazolyl)methoxy           54         methyl         methoxy           54         methyl         1-methylethoxy           55         methyl         1-methylethoxy           56         methyl         2-phenylethyl           57         methyl         2-phenylethyl           59         methyl         2-(3,5-dimethylphenyl)ethyl           60         methyl         2-(3,5-dimethylphenyl)methoxy           61         methyl         2-(3,5-dimethylphenyl)methoxy           64 <t< td=""><td>+</td><td></td><td>· · · · · · · · · · · · · · · · · · ·</td></t<>	+		· · · · · · · · · · · · · · · · · · ·
44         amino         (4,5-dimethyl-2-oxazolyl)methoxy           45         amino         (2,5-dimethyl-4-thiazolyl)methoxy           46         amino         (3,5-dimethyl-1-pyrazolyl)ethyl           47         amino         (1,3-benzodioxo-4-yl)methoxy           48         amino         (1,3,5-trimethyl-4-pyrazolyl)methoxy           49         amino         (2,6-dimethyl-2-furanyl)methoxy           50         amino         (4,5-dimethyl-2-furanyl)methoxy           51         amino         (4,5-dimethyl-2-furanyl)methoxy           52         amino         (2-(2-oxazolyl)ethyl           53         methyl         methoxy           54         methyl         1-methylethyl           55         methyl         1-methylethoxy           56         methyl         phenoxy           57         methyl         2-phenylethyl           59         methyl         2-(3,5-dimethylphenyl)ethyl           60         methyl         3,5-dimethylphenyl)methoxy           63         methyl         3,5-dimethylphenyl)methoxy           64         methyl         2-(3,5-dimethylphenyl)methoxy           65         methyl         (3-amino-5-methylphenyl)methoxy           66         methyl<			
45         amino         (2,5-dimethyl-4-thiazolyl)methoxy           46         amino         (3,5-dimethyl-1-pyrazolyl)ethyl           47         amino         (1,3-benzodioxo-4-yl)methoxy           48         amino         (1,3,5-trimethyl-4-pyrazolyl)methoxy           49         amino         (2,6-dimethyl-2-pyrazolyl)methoxy           50         amino         (4,5-dimethyl-2-furanyl)methoxy           51         amino         (4,5-dimethyl-2-furanyl)methoxy           52         amino         2-(2-oxazolyl)methoxy           52         amino         2-(2-oxazolyl)methoxy           53         methyl         methoxy           54         methyl         1-methylethyl           55         methyl         1-methylethoxy           56         methyl         2-phenylethyl           57         methyl         2-phenylethyl           58         methyl         2-(3,5-dimethylphenyl)ethyl           60         methyl         2-phenylethenyl           61         methyl         3,5-dimethylphenyl)methoxy           63         methyl         3,5-dimethylphenyl)methoxy           64         methyl         2-(3,5-dimethoxyphenyl)methoxy           65         methyl			
46         amino         (3,5-dimethyl-1-pyrazolyl)ethyl           47         amino         (1,3-benzodioxo-4-yl)methoxy           48         amino         (1,3,5-trimethyl-4-pyrazolyl)methoxy           49         amino         (2,6-dimethyl-4-pyrimidinyl)methoxy           50         amino         (4,5-dimethyl-2-furanyl)methoxy           51         amino         (4,5-dimethyl-2-thiazolyl)methoxy           52         amino         2-(2-oxazolyl)ethyl           53         methyl         methoxy           54         methyl         1-methylethoxy           55         methyl         1-methylethoxy           56         methyl         phenoxy           57         methyl         2-phenylethyl           59         methyl         2-phenylethyl           60         methyl         2-phenylethenyl           61         methyl         3,5-dimethylphenyl)ethyl           62         methyl         3,5-dimethylphenyl)methoxy           63         methyl         2-(3,5-dimethylphenyl)ethenyl           64         methyl         2-(3,5-dimethoxyphenyl)methoxy           65         methyl         (3,5-dimethoxyphenyl)methoxy           68         methyl         3,5-dimethoxyp		<del></del>	
47         amino         (1,3-benzodioxo-4-yl)methoxy           48         amino         (1,3,5-trimethyl-4-pyrazolyl)methoxy           49         amino         (2,6-dimethyl-4-pyrimidinyl)methoxy           50         amino         (4,5-dimethyl-2-furanyl)methoxy           51         amino         (4,5-dimethyl-2-thiazolyl)methoxy           52         amino         2-(2-oxazolyl)methoxy           53         methyl         methyl           54         methyl         1-methylethyl           55         methyl         1-methylethoxy           56         methyl         phenoxy           57         methyl         2-phenylethyl           59         methyl         2-phenylethyl           60         methyl         2-phenylethenyl           61         methyl         3,5-dimethylphenyl)ethyl           62         methyl         3,5-dimethylphenoxy           63         methyl         2-(3,5-dimethylphenyl)ethenyl           64         methyl         2-(3,5-dimethoxyphenyl)methoxy           65         methyl         (3-amino-5-methylphenyl)methoxy           66         methyl         3,5-dimethoxyphenoxy           69         methyl         2-(3,5-dimethoxyphenyl)metho			
48         amino         (1,3,5-trimethyl-4-pyrazolyl)methoxy           49         amino         (2,6-dimethyl-4-pyrimidinyl)methoxy           50         amino         (4,5-dimethyl-2-furanyl)methoxy           51         amino         (4,5-dimethyl-2-thiazolyl)methoxy           52         amino         2-(2-oxazolyl)ethyl           53         methyl         methoxy           54         methyl         1-methylethyl           55         methyl         phenyl           56         methyl         phenoxy           57         methyl         2-phenylethyl           59         methyl         2-ghenylethenyl           60         methyl         2-phenylethenyl           61         methyl         2-phenylethenyl           62         methyl         3,5-dimethylphenyl)ethoxy           63         methyl         3,5-dimethylphenyl)methoxy           64         methyl         2-(3,5-dimethylphenyl)ethenyl           65         methyl         (3-amino-5-methylphenyl)methoxy           67         methyl         3,5-dimethoxyphenyl)methoxy           68         methyl         2-(3,5-dimethoxyphenyl)methoxy           69         methyl         3,5-dimethoxyphenyl)methoxy		<del></del>	
49         amino         (2,6-dimethyl-4-pyrimidinyl)methoxy           50         amino         (4,5-dimethyl-2-furanyl)methoxy           51         amino         (4,5-dimethyl-2-thiazolyl)methoxy           52         amino         2-(2-oxazolyl)ethyl           53         methyl         methoxy           54         methyl         1-methylethyl           55         methyl         1-methylethoxy           56         methyl         phenyl           57         methyl         phenoxy           58         methyl         2-phenylethyl           59         methyl         2-phenylethenyl           60         methyl         2-phenylethenyl           61         methyl         3,5-dimethylphenyl)ethyl           62         methyl         3,5-dimethylphenyl)methoxy           63         methyl         2-(3,5-dimethylphenyl)ethyl           65         methyl         (3,5-dimethoxyphenyl)methoxy           67         methyl         (3,5-dimethoxyphenyl)methoxy           68         methyl         2-(3,5-dimethoxyphenyl)ethyl           70         methyl         (3,5-dimethoxyphenyl)methoxy			
50         amino         (4,5-dimethyl-2-furanyl)methoxy           51         amino         (4,5-dimethyl-2-thiazolyl)methoxy           52         amino         2-(2-oxazolyl)ethyl           53         methyl         methoxy           54         methyl         1-methylethyl           55         methyl         1-methylethoxy           56         methyl         phenyl           57         methyl         2-phenylethyl           58         methyl         2-phenylethyl           59         methyl         2-phenylethenyl)ethyl           60         methyl         2-phenylethenyl)ethyl           61         methyl         3,5-dimethylphenyl)ethyl           62         methyl         3,5-dimethylphenyl)methoxy           63         methyl         2-(3,5-dimethylphenyl)ethyl           64         methyl         (3-amino-5-methylphenyl)methoxy           67         methyl         (3,5-dimethoxyphenyl)methoxy           68         methyl         3,5-dimethoxyphenyl)ethyl           70         methyl         (3,5-dichlorophenyl)methoxy			
51         amino         (4,5-dimethyl-2-thiazolyl)methoxy           52         amino         2-(2-oxazolyl)ethyl           53         methyl         methoxy           54         methyl         1-methylethyl           55         methyl         1-methylethoxy           56         methyl         phenyl           57         methyl         2-phenylethyl           58         methyl         2-phenylethyl           59         methyl         2-phenylethenyl)ethyl           60         methyl         2-phenylethenyl           61         methyl         3,5-dimethylphenyl)ethoxy           63         methyl         3,5-dimethylphenyl)methoxy           64         methyl         2-(3,5-dimethylphenyl)ethenyl           65         methyl         (3-amino-5-methylphenyl)methoxy           67         methyl         (3,5-dimethoxyphenyl)methoxy           68         methyl         3,5-dimethoxyphenyl)ethyl           69         methyl         (3,5-dimethoxyphenyl)methoxy           69         methyl         (3,5-dimethoxyphenyl)methoxy			
52         amino         2-(2-oxazoly1)ethy1           53         methy1         methoxy           54         methy1         1-methylethy1           55         methy1         phenyl           56         methy1         phenoxy           58         methy1         2-phenylethy1           59         methy1         2-phenylethenyl)ethy1           60         methy1         2-phenylethenyl)ethy1           61         methy1         phenoxymethy1           62         methy1         3,5-dimethylphenoxy           63         methy1         (3,5-dimethylphenyl)methoxy           64         methy1         2-(3,5-dimethylphenyl)ethyl           65         methy1         (3-amino-5-methylphenyl)methoxy           67         methy1         (3,5-dimethoxyphenyl)methoxy           68         methy1         3,5-dimethoxyphenoxy           69         methy1         2-(3,5-dimethoxyphenyl)ethyl           70         methy1         (3,5-dichlorophenyl)methoxy			
53         methyl         methoxy           54         methyl         1-methylethyl           55         methyl         phenyl           56         methyl         phenoxy           57         methyl         2-phenylethyl           59         methyl         2-qhenylethyl           60         methyl         2-phenylethenyl)ethyl           61         methyl         phenoxymethyl           62         methyl         3,5-dimethylphenoxy           63         methyl         (3,5-dimethylphenyl)methoxy           64         methyl         2-(3,5-dimethylphenyl)ethyl           65         methyl         (3-amino-5-methylphenyl)methoxy           67         methyl         (3,5-dimethoxyphenyl)methoxy           68         methyl         3,5-dimethoxyphenyl)ethyl           69         methyl         (3,5-dichlorophenyl)methoxy           70         methyl         (3,5-dichlorophenyl)methoxy			
54         methyl         1-methylethyl           55         methyl         1-methylethoxy           56         methyl         phenyl           57         methyl         2-phenylethyl           58         methyl         2-phenylethyl           59         methyl         2-phenylethenyl)ethyl           60         methyl         2-phenylethenyl           61         methyl         phenoxymethyl           62         methyl         3,5-dimethylphenoxy           63         methyl         (3,5-dimethylphenyl)methoxy           64         methyl         2-(3,5-dimethylphenyl)ethyl           65         methyl         (3-amino-5-methylphenyl)methoxy           67         methyl         (3,5-dimethoxyphenyl)methoxy           68         methyl         3,5-dimethoxyphenyl)ethyl           69         methyl         (3,5-dichlorophenyl)methoxy           69         methyl         (3,5-dichlorophenyl)methoxy			<del>                                     </del>
55         methyl         1-methylethoxy           56         methyl         phenyl           57         methyl         2-phenylethyl           58         methyl         2-phenylethyl           59         methyl         2-phenylethenyl)ethyl           60         methyl         phenoxymethyl           61         methyl         3,5-dimethylphenoxy           62         methyl         3,5-dimethylphenyl)methoxy           63         methyl         2-(3,5-dimethylphenyl)ethyl           65         methyl         2-(3,5-dimethylphenyl)methoxy           66         methyl         (3-amino-5-methylphenyl)methoxy           67         methyl         (3,5-dimethoxyphenyl)methoxy           68         methyl         3,5-dimethoxyphenoxy           69         methyl         (3,5-dimethoxyphenyl)methoxy           70         methyl         (3,5-dichlorophenyl)methoxy			<u> </u>
56         methyl         phenyl           57         methyl         2-phenylethyl           58         methyl         2-phenylethyl           59         methyl         2-(3,5-dimethylphenyl)ethyl           60         methyl         2-phenylethenyl           61         methyl         phenoxymethyl           62         methyl         3,5-dimethylphenoxy           63         methyl         (3,5-dimethylphenyl)methoxy           64         methyl         2-(3,5-dimethylphenyl)ethyl           65         methyl         (3-amino-5-methylphenyl)methoxy           67         methyl         (3,5-dimethoxyphenyl)methoxy           68         methyl         3,5-dimethoxyphenoxy           69         methyl         (3,5-dimethoxyphenyl)ethyl           70         methyl         (3,5-dichlorophenyl)methoxy			
57         methyl         phenoxy           58         methyl         2-phenylethyl           59         methyl         2-(3,5-dimethylphenyl)ethyl           60         methyl         2-phenylethenyl           61         methyl         phenoxymethyl           62         methyl         3,5-dimethylphenoxy           63         methyl         (3,5-dimethylphenyl)methoxy           64         methyl         2-(3,5-dimethylphenyl)ethyl           65         methyl         (3-amino-5-methylphenyl)methoxy           67         methyl         (3,5-dimethoxyphenyl)methoxy           68         methyl         3,5-dimethoxyphenoxy           69         methyl         (3,5-dimethoxyphenyl)ethyl           70         methyl         (3,5-dichlorophenyl)methoxy			
methyl 2-phenylethyl  methyl 2-(3,5-dimethylphenyl)ethyl  methyl 2-phenylethenyl  methyl 2-phenylethenyl  methyl phenoxymethyl  methyl 3,5-dimethylphenoxy  methyl (3,5-dimethylphenyl)methoxy  methyl 2-(3,5-dimethylphenyl)ethyl  methyl 2-(3,5-dimethylphenyl)ethenyl  methyl (3-amino-5-methylphenyl)methoxy  methyl (3,5-dimethoxyphenyl)methoxy  methyl 3,5-dimethoxyphenyl)methoxy  methyl 2-(3,5-dimethoxyphenyl)methoxy  methyl 3,5-dimethoxyphenyl)ethyl  methyl (3,5-dimethoxyphenyl)ethyl  methyl (3,5-dichlorophenyl)methoxy			<del> </del>
methyl 2-(3,5-dimethylphenyl)ethyl 2-phenylethenyl phenoxymethyl symmethyl s			
60 methyl 2-phenylethenyl 61 methyl phenoxymethyl 62 methyl 3,5-dimethylphenoxy 63 methyl (3,5-dimethylphenyl)methoxy 64 methyl 2-(3,5-dimethylphenyl)ethyl 65 methyl 2-(3,5-dimethylphenyl)ethenyl 66 methyl (3-amino-5-methylphenyl)methoxy 67 methyl (3,5-dimethoxyphenyl)methoxy 68 methyl 3,5-dimethoxyphenoxy 69 methyl 2-(3,5-dimethoxyphenyl)ethyl 70 methyl (3,5-dichlorophenyl)methoxy			<u></u>
61 methyl phenoxymethyl 62 methyl 3,5-dimethylphenoxy 63 methyl (3,5-dimethylphenyl)methoxy 64 methyl 2-(3,5-dimethylphenyl)ethyl 65 methyl 2-(3,5-dimethylphenyl)ethenyl 66 methyl (3-amino-5-methylphenyl)methoxy 67 methyl (3,5-dimethoxyphenyl)methoxy 68 methyl 3,5-dimethoxyphenoxy 69 methyl 2-(3,5-dimethoxyphenyl)ethyl 70 methyl (3,5-dichlorophenyl)methoxy			
62methyl3,5-dimethylphenoxy63methyl(3,5-dimethylphenyl)methoxy64methyl2-(3,5-dimethylphenyl)ethyl65methyl2-(3,5-dimethylphenyl)ethenyl66methyl(3-amino-5-methylphenyl)methoxy67methyl(3,5-dimethoxyphenyl)methoxy68methyl3,5-dimethoxyphenoxy69methyl2-(3,5-dimethoxyphenyl)ethyl70methyl(3,5-dichlorophenyl)methoxy			
63 methyl (3,5-dimethylphenyl)methoxy 64 methyl 2-(3,5-dimethylphenyl)ethyl 65 methyl 2-(3,5-dimethylphenyl)ethenyl 66 methyl (3-amino-5-methylphenyl)methoxy 67 methyl (3,5-dimethoxyphenyl)methoxy 68 methyl 3,5-dimethoxyphenoxy 69 methyl 2-(3,5-dimethoxyphenyl)ethyl 70 methyl (3,5-dichlorophenyl)methoxy			
64methyl2-(3,5-dimethylphenyl)ethyl65methyl2-(3,5-dimethylphenyl)ethenyl66methyl(3-amino-5-methylphenyl)methoxy67methyl(3,5-dimethoxyphenyl)methoxy68methyl3,5-dimethoxyphenoxy69methyl2-(3,5-dimethoxyphenyl)ethyl70methyl(3,5-dichlorophenyl)methoxy			
65 methyl 2-(3,5-dimethylphenyl)ethenyl 66 methyl (3-amino-5-methylphenyl)methoxy 67 methyl (3,5-dimethoxyphenyl)methoxy 68 methyl 3,5-dimethoxyphenoxy 69 methyl 2-(3,5-dimethoxyphenyl)ethyl 70 methyl (3,5-dichlorophenyl)methoxy			
66 methyl (3-amino-5-methylphenyl)methoxy 67 methyl (3,5-dimethoxyphenyl)methoxy 68 methyl 3,5-dimethoxyphenoxy 69 methyl 2-(3,5-dimethoxyphenyl)ethyl 70 methyl (3,5-dichlorophenyl)methoxy			
67 methyl (3,5-dimethoxyphenyl)methoxy 68 methyl 3,5-dimethoxyphenoxy 69 methyl 2-(3,5-dimethoxyphenyl)ethyl 70 methyl (3,5-dichlorophenyl)methoxy			
68 methyl 3,5-dimethoxyphenoxy 69 methyl 2-(3,5-dimethoxyphenyl)ethyl 70 methyl (3,5-dichlorophenyl)methoxy			
69 methyl 2-(3,5-dimethoxyphenyl)ethyl 70 methyl (3,5-dichlorophenyl)methoxy			
70 methyl (3,5-dichlorophenyl)methoxy			
71 methyl 3,5-dibromophenoxy			
	71	methyl	3,5-dibromophenoxy

72	methyl	[2,6-bis(trifluoromethyl)phenyl]methoxy
73	methyl	2,6-bis(trifluoromethyl)phenoxy
74	methyl	[5-methyl-3-(methylsulfonyl)phenyl]methoxy
75	methyl	5-methyl-3-(methylsulfonyl)phenoxy
76	methyl	(2,6-dimethyl-4-pyridinyl)methoxy
77	methyl	2,6-dimethyl-4-pyridinyloxy
78	methyl	(2,6-dichloro-4-pyridinyl)methoxy
79	methyl	(2-methoxy-6-methyl-4-pyridinyl)methoxy
80	methyl	(1-naphthalenyl)methoxy
81	methyl	1-naphthalenyloxy
82	methyl	(2-naphthalenyl)methoxy
83	methyl	(2-methyl-1-naphthalenyl)methoxy
84	methyl	(4-methyl-2-naphthalenyl)methoxy
85	methyl	(4-quinolinyl)methoxy
86	methyl	1-(4-quinolinyl)ethoxy
87	methyl	4-quinolinyloxy
88	methyl	(4-quinolinyloxy)methyl
89_	methyl	(2-methyl-4-quinolinyl)methoxy
90	methyl	2-methyl-4-quinolinyloxy
91	methyl	(2-methoxy-4-quinolinyl)methoxy
92	methyl	2-(1,2,3-benzotriazol-1-yl)ethyl
93	methyl	(2-benzimidazolyl)methoxy
94	methyl	(1,4-dimethyl-5-imidazolyl)methoxy
95	methyl	(3,5-dimethyl-4-isoxazolyl)methoxy
96	methyl	(4,5-dimethyl-2-oxazolyl)methoxy
97	methyl	(2,5-dimethyl-4-thiazolyl)methoxy
98	methyl	(3,5-dimethyl-1-pyrazolyl)ethyl
99	methyl	(1,3-benzodioxo-4-yl)methoxy
100	methyl	(1,3,5-trimethyl-4-pyrazolyl)methoxy
101	methyl	(2,6-dimethyl-4-pyrimidinyl)methoxy
102	methyl	(4,5-dimethyl-2-furanyl)methoxy
103	methyl	(4,5-dimethyl-2-thiazolyl)methoxy
104	methyl	2-(2-oxazolyl)ethyl

## TABLE 5

4	Me	methyl
5	OH	methyl
6	NH ₂	methyl
7	Me	ethyl
8	OH	ethyl
9	NH ₂	ethyl
10	Me	isopropyl
11	ОН	isopropyl
12	NH ₂	isopropyl
13	Me	phenyl
14	OH	phenyl
15	NH ₂	phenyl
16	Me	benzyl
17	ОН	benzyl
18	NH ₂	benzyl
19	Me	2-phenylethyl
20	ОН	2-phenylethyl
21	NH ₂	2-phenylethyl
22	Me	2-(2-methylphenyl)ethyl
23	ОН	2-(2-methylphenyl)ethyl
24	NH ₂	2-(2-methylphenyl)ethyl
25	Me	2-(3-methylphenyl)ethyl
26	OH	2-(3-methylphenyl)ethyl
<u> 27</u>	NH ₂	2-(3-methylphenyl)ethyl
28	Me	2-(2,6-dimethylphenyl)ethyl
29	OH	2-(2,6-dimethylphenyl)ethyl
30	NH ₂	2-(2,6-dimethylphenyl)ethyl
31	Me	2-(3,5-dimethylphenyl)ethyl
32	OH	2-(3,5-dimethylphenyl)ethyl
33	NH ₂	2-(3,5-dimethylphenyl)ethyl
34	Me	2-(3-amino-5-methylphenyl)ethyl
35	OH	2-(3-amino-5-methylphenyl)ethyl
36	NH ₂	2-(3-amino-5-methylphenyl)ethyl
37	Me	2-(pyridin-4-yl)ethyl
38	OH	2-(pyridin-4-yl)ethyl
39	NH ₂	2-(pyridin-4-yl)ethyl
40	Me	2-(2,6-dimethylpyridin-4-yl)ethyl
41 42	OH	2-(2,6-dimethylpyridin-4-yl)ethyl 2-(2,6-dimethylpyridin-4-yl)ethyl
	NH ₂	
43	Me	2-(3,5-dimethylpyridin-4-yl)ethyl 2-(3,5-dimethylpyridin-4-yl)ethyl
44	OH	2-(3,5-dimethylpyridin-4-yl)ethyl 2-(3,5-dimethylpyridin-4-yl)ethyl
45 46	NH ₂	
47	Me OH	styryl styryl
48	NH ₂	styryl styryl
49	Me	hydroxy
49 50	Me OH	hydroxy
51	NH ₂	hydroxyhydroxy
52	Me	methoxy
53	OH	methoxy
54	NH ₂	methoxy
55	Me	ethoxy
56	ОН	ethoxy
57	NH ₂	ethoxy
58	Me	isopropyloxy
59	OH	isopropyloxy
60	NH ₂	isopropyloxy
61	Me	tert-butoxy
62	Me OH	tert-butoxy
63	NH ₂	tert-butoxy
	44412	core bucony

64	Me	cyclohexyloxy
65	OH	cyclohexyloxy
66	NH ₂	cyclohexyloxy
67	Me	phenoxy
68	ОН	phenoxy
69	NH ₂	phenoxy
70	Me	o-methylphenoxy
71	OH	o-methylphenoxy
72	NH ₂	o-methylphenoxy
— <del>—</del> 7-3—	Me	m-methylphenoxy
74 75	OH	m-methylphenoxy
76	NH ₂	m-methylphenoxy
76	Me OH	cinnamyloxy
78	NH ₂	cinnamyloxy
79	Me	cinnamyloxy
80	OH	benzyloxy benzyloxy
81	NH ₂	benzyloxy
82	Me	phenoxymethyl
83	ОН	phenoxymethyl
84	NH,	phenoxymethyl
85	Me	o-methylbenzyloxy
86	ОН	o-methylbenzyloxy
87	NH,	o-methylbenzyloxy
88	Me	m-methylbenzyloxy
89	ОН	m-methylbenzyloxy
90	NH ₂	m-methylbenzyloxy
91	Me	o,o-dimethylbenzyloxy
92	ОН	o,o-dimethylbenzyloxy
93	NH ₂	o,o-dimethylbenzyloxy
94	Me	(2,6-dimethylphenoxy)methyl
95	ОН	(2,6-dimethylphenoxy)methyl
96	NH ₂	(2,6-dimethylphenoxy)methyl
97	Me	m, m-dimethylbenzyloxy
98	OH	m, m-dimethylbenzyloxy
99	NH ₂	m,m-dimethylbenzyloxy
100 101	Me OH	(3,5-dimethylphenoxy)methyl (3,5-dimethylphenoxy)methyl
101	NH ₂	(3,5-dimethylphenoxy)methyl
103	Me	o,o-dicyanobenzyloxy
104	ОН	o,o-dicyanobenzyloxy
105	NH ₂	o,o-dicyanobenzyloxy
106	Me	m,m-dicyanobenzyloxy
107	ОН	m,m-dicyanobenzyloxy
108	$NH_2$	m,m-dicyanobenzyloxy
109	Me	(2,6-dicyanophenoxy)methyl
110	OH	(2,6-dicyanophenoxy)methyl
111	NH ₂	(2,6-dicyanophenoxy)methyl
112	Me	(3,5-dicyanophenoxy)methyl
113	OH	(3,5-dicyanophenoxy)methyl
114	NH ₂	(3,5-dicyanophenoxy)methyl
115	Me	o-amino-o-cyanobenzyloxy
116	OH	o-amino-o-cyanobenzyloxy
117	NH ₂	o-amino-o-cyanobenzyloxy
118	Me	m-amino-m-cyanobenzyloxy
119	OH	m-amino-m-cyanobenzyloxy
120	NH ₂	m-amino-m-cyanobenzyloxy
121	Me	o-amino-o-nitrobenzyloxy
122 123	OH NH ₂	o-amino-o-nitrobenzyloxy
123	11172	o-amino-o-nitrobenzyloxy

124			
126	124	Me	m-amino-m-nitrobenzyloxy
127	125	ОН	m-amino-m-nitrobenzyloxy
127			m-amino-m-nitrobenzyloxy
128			
139			<u> </u>
131			
131			
132 NH,			
133			
134			
135			
136	1		
137			<del>                                      </del>
138			
139		OH	
140	138_	NH ₂	
141	139	Me	
142	140	OH	
143	141	NH ₂	m-cyano-m-methylbenzyloxy
144 NH,	142	Me	o-cyano-o-nitrobenzyloxy
144	143	OH	o-cyano-o-nitrobenzyloxy
145			
146			
147         NH ₂ (2-cyano-6-nitrophenoxy) methyl           148         Me         m-cyano-m-nitrobenzyloxy           149         OH         m-cyano-m-nitrobenzyloxy           150         NH ₂ (3-cyano-5-nitrophenoxy) methyl           152         OH         (3-cyano-5-nitrophenoxy) methyl           153         NH ₂ (3-cyano-5-nitrophenoxy) methyl           154         Me         m, m-dimethoxybenzyloxy           155         OH         m, m-dimethoxybenzyloxy           156         NH ₂ m, m-dimethoxybenzyloxy           157         Me         m, m-dimethoxybenzyloxy           158         OH         m, m-dichlorobenzyloxy           159         NH ₂ m, m-dichlorobenzyloxy           160         Me         (3,5-dichlorophenoxy) methyl           161         OH         (3,5-dichlorophenoxy) methyl           162         NH ₂ m, m-dibromobenzyloxy           163         Me         m, m-dibromobenzyloxy           164         OH         m, m-bis(trifluoromethyl) benzyloxy           165         NH ₂ m, m-bis(trifluoromethyl) benzyloxy           166         Me         m, m-bis(trifluoromethyl) benzyloxy           167			
148			
149			<del> </del>
150 NH,   m-cyano-m-nitrobenzyloxy			
151			
152 OH (3-cyano-5-nitrophenoxy)methyl 153 NH, (3-cyano-5-nitrophenoxy)methyl 154 Me m,m-dimethoxybenzyloxy 155 OH m,m-dimethoxybenzyloxy 156 NH, m,m-dimethoxybenzyloxy 157 Me m,m-dimethoxybenzyloxy 158 OH m,m-dichlorobenzyloxy 159 NH ₂ m,m-dichlorobenzyloxy 160 Me (3,5-dichlorophenoxy)methyl 161 OH (3,5-dichlorophenoxy)methyl 162 NH, (3,5-dichlorophenoxy)methyl 163 Me m,m-dibromobenzyloxy 164 OH m,m-dibromobenzyloxy 165 NH, m,m-dibromobenzyloxy 166 Me m,m-bis(trifluoromethyl)benzyloxy 167 OH m,m-bis(trifluoromethyl)benzyloxy 168 NH, m,m-bis(trifluoromethyl)benzyloxy 169 Me [3,5-bis(trifluoromethyl)phenoxy]methyl 170 OH [3,5-bis(trifluoromethyl)phenoxy]methyl 171 NH, [3,5-bis(trifluoromethyl)phenoxy]methyl 172 Me m-carboxamido-m-methylbenzyloxy 173 OH m-carboxamido-m-methylbenzyloxy 174 NH ₂ m-carboxamido-m-methylbenzyloxy 175 Me (3-carboxamido-5-methylphenoxy)methyl 176 OH (3-carboxamido-5-methylphenoxy)methyl 177 NH ₂ (3-carboxamido-5-methylphenoxy)methyl 178 Me m-hydroxycarbonyl-m-methylbenzyloxy 179 OH m-hydroxycarbonyl-m-methylbenzyloxy 180 NH ₂ m-hydroxycarbonyl-m-methylbenzyloxy 181 Me (3-hydroxycarbonyl-5-methylphenoxy)methyl 182 OH (3-hydroxycarbonyl-5-methylphenoxy)methyl			
153 NH ₂ (3-cyano-5-nitrophenoxy) methyl 154 Me m,m-dimethoxybenzyloxy 155 OH m,m-dimethoxybenzyloxy 156 NH ₂ m,m-dimethoxybenzyloxy 157 Me m,m-dichlorobenzyloxy 158 OH m,m-dichlorobenzyloxy 159 NH ₂ m,m-dichlorobenzyloxy 160 Me (3,5-dichlorophenoxy) methyl 161 OH (3,5-dichlorophenoxy) methyl 162 NH ₂ (3,5-dichlorophenoxy) methyl 163 Me m,m-dibromobenzyloxy 164 OH m,m-dibromobenzyloxy 165 NH ₂ m,m-dibromobenzyloxy 166 Me m,m-bis(trifluoromethyl) benzyloxy 167 OH m,m-bis(trifluoromethyl) benzyloxy 168 NH ₂ m,m-bis(trifluoromethyl) benzyloxy 169 Me [3,5-bis(trifluoromethyl) benzyloxy 170 OH [3,5-bis(trifluoromethyl) phenoxy] methyl 171 NH ₂ [3,5-bis(trifluoromethyl) phenoxy] methyl 172 Me m-carboxamido-m-methyl benzyloxy 173 OH m-carboxamido-m-methyl benzyloxy 174 NH ₂ m-carboxamido-m-methyl benzyloxy 175 Me (3-carboxamido-5-methyl phenoxy) methyl 176 OH (3-carboxamido-5-methyl phenoxy) methyl 177 NH ₂ (3-carboxamido-5-methyl phenoxy) methyl 178 Me m-hydroxycarbonyl-m-methyl benzyloxy 179 OH m-hydroxycarbonyl-m-methyl benzyloxy 180 NH ₂ m-hydroxycarbonyl-m-methyl benzyloxy 181 Me (3-hydroxycarbonyl-m-methyl benzyloxy) 182 OH (3-hydroxycarbonyl-5-methyl phenoxy) methyl			
154			
155			
156			
m, m-dichlorobenzyloxy m, m-dichlorobenzyloxy m, m-dichlorobenzyloxy m, m-dichlorobenzyloxy m, m-dichlorobenzyloxy m, m-dichlorobenzyloxy m, m-dichlorobenzyloxy m, m-dichlorobenzyloxy m, m-dichlorophenoxy) methyl m, m-dichlorophenoxy) methyl m, m-dichlorophenoxy) methyl m, m-dichlorophenoxy) methyl m, m-dichlorophenoxy) methyl m, m-dichlorophenoxy) methyl m, m-dichlorophenoxy) methyl m, m-dichlorophenoxy) methyl m, m-dichlorophenoxy) methyl m, m-dichlorophenoxy) methyl m, m-dichlorophenoxy) methyl m, m-dichlorophenoxy) methyl m, m-dichlorophenoxy) methyl m, m-dichlorophenoxyloxy m, m-dichlorophenoxyloxy m, m-dichl			
158			
159 NH ₂ m,m-dichlorobenzyloxy  160 Me (3,5-dichlorophenoxy)methyl 161 OH (3,5-dichlorophenoxy)methyl 162 NH ₂ (3,5-dichlorophenoxy)methyl 163 Me m,m-dibromobenzyloxy 164 OH m,m-dibromobenzyloxy 165 NH ₂ m,m-dibromobenzyloxy 166 Me m,m-bis(trifluoromethyl)benzyloxy 167 OH m,m-bis(trifluoromethyl)benzyloxy 168 NH ₂ m,m-bis(trifluoromethyl)benzyloxy 169 Me [3,5-bis(trifluoromethyl)phenoxy]methyl 170 OH [3,5-bis(trifluoromethyl)phenoxy]methyl 171 NH ₂ [3,5-bis(trifluoromethyl)phenoxy]methyl 172 Me m-carboxamido-m-methylbenzyloxy 173 OH m-carboxamido-m-methylbenzyloxy 174 NH ₂ m-carboxamido-m-methylbenzyloxy 175 Me (3-carboxamido-5-methylphenoxy)methyl 176 OH (3-carboxamido-5-methylphenoxy)methyl 177 NH ₂ (3-carboxamido-5-methylphenoxy)methyl 178 Me m-hydroxycarbonyl-m-methylbenzyloxy 179 OH m-hydroxycarbonyl-m-methylbenzyloxy 180 NH ₂ m-hydroxycarbonyl-m-methylbenzyloxy 181 Me (3-hydroxycarbonyl-5-methylphenoxy)methyl 182 OH (3-hydroxycarbonyl-5-methylphenoxy)methyl			
160 Me (3,5-dichlorophenoxy)methyl 161 OH (3,5-dichlorophenoxy)methyl 162 NH ₂ (3,5-dichlorophenoxy)methyl 163 Me m,m-dibromobenzyloxy 164 OH m,m-dibromobenzyloxy 165 NH ₂ m,m-dibromobenzyloxy 166 Me m,m-bis(trifluoromethyl)benzyloxy 167 OH m,m-bis(trifluoromethyl)benzyloxy 168 NH ₂ m,m-bis(trifluoromethyl)benzyloxy 169 Me [3,5-bis(trifluoromethyl)phenoxy]methyl 170 OH [3,5-bis(trifluoromethyl)phenoxy]methyl 171 NH ₂ [3,5-bis(trifluoromethyl)phenoxy]methyl 172 Me m-carboxamido-m-methylbenzyloxy 173 OH m-carboxamido-m-methylbenzyloxy 174 NH ₂ m-carboxamido-m-methylbenzyloxy 175 Me (3-carboxamido-5-methylphenoxy)methyl 176 OH (3-carboxamido-5-methylphenoxy)methyl 177 NH ₂ (3-carboxamido-5-methylphenoxy)methyl 178 Me m-hydroxycarbonyl-m-methylbenzyloxy 179 OH m-hydroxycarbonyl-m-methylbenzyloxy 180 NH ₂ m-hydroxycarbonyl-m-methylphenoxy)methyl 181 Me (3-hydroxycarbonyl-5-methylphenoxy)methyl 182 OH (3-hydroxycarbonyl-5-methylphenoxy)methyl			
161 OH (3,5-dichlorophenoxy)methyl 162 NH ₂ (3,5-dichlorophenoxy)methyl 163 Me m,m-dibromobenzyloxy 164 OH m,m-dibromobenzyloxy 165 NH ₂ m,m-dibromobenzyloxy 166 Me m,m-bis(trifluoromethyl)benzyloxy 167 OH m,m-bis(trifluoromethyl)benzyloxy 168 NH ₂ m,m-bis(trifluoromethyl)benzyloxy 169 Me [3,5-bis(trifluoromethyl)phenoxy]methyl 170 OH [3,5-bis(trifluoromethyl)phenoxy]methyl 171 NH ₂ [3,5-bis(trifluoromethyl)phenoxy]methyl 172 Me m-carboxamido-m-methylbenzyloxy 173 OH m-carboxamido-m-methylbenzyloxy 174 NH ₂ m-carboxamido-5-methylphenoxy)methyl 175 Me (3-carboxamido-5-methylphenoxy)methyl 176 OH (3-carboxamido-5-methylphenoxy)methyl 177 NH ₂ (3-carboxamido-5-methylphenoxy)methyl 178 Me m-hydroxycarbonyl-m-methylbenzyloxy 179 OH m-hydroxycarbonyl-m-methylbenzyloxy 180 NH ₂ m-hydroxycarbonyl-m-methylbenoxy)methyl 181 Me (3-hydroxycarbonyl-5-methylphenoxy)methyl 182 OH (3-hydroxycarbonyl-5-methylphenoxy)methyl			
162 NH, (3,5-dichlorophenoxy)methyl  163 Me m,m-dibromobenzyloxy  164 OH m,m-dibromobenzyloxy  165 NH, m,m-dibromobenzyloxy  166 Me m,m-bis(trifluoromethyl)benzyloxy  167 OH m,m-bis(trifluoromethyl)benzyloxy  168 NH, m,m-bis(trifluoromethyl)benzyloxy  169 Me [3,5-bis(trifluoromethyl)phenoxy]methyl  170 OH [3,5-bis(trifluoromethyl)phenoxy]methyl  171 NH, [3,5-bis(trifluoromethyl)phenoxy]methyl  172 Me m-carboxamido-m-methylbenzyloxy  173 OH m-carboxamido-m-methylbenzyloxy  174 NH, m-carboxamido-m-methylbenzyloxy  175 Me (3-carboxamido-5-methylphenoxy)methyl  176 OH (3-carboxamido-5-methylphenoxy)methyl  177 NH, (3-carboxamido-5-methylphenoxy)methyl  178 Me m-hydroxycarbonyl-m-methylbenzyloxy  179 OH m-hydroxycarbonyl-m-methylbenzyloxy  180 NH, m-hydroxycarbonyl-m-methylbenzyloxy  181 Me (3-hydroxycarbonyl-5-methylphenoxy)methyl  182 OH (3-hydroxycarbonyl-5-methylphenoxy)methyl		Me	
163 Me m,m-dibromobenzyloxy 164 OH m,m-dibromobenzyloxy 165 NH ₂ m,m-dibromobenzyloxy 166 Me m,m-bis(trifluoromethyl)benzyloxy 167 OH m,m-bis(trifluoromethyl)benzyloxy 168 NH ₂ m,m-bis(trifluoromethyl)benzyloxy 169 Me [3,5-bis(trifluoromethyl)phenoxy]methyl 170 OH [3,5-bis(trifluoromethyl)phenoxy]methyl 171 NH ₂ [3,5-bis(trifluoromethyl)phenoxy]methyl 172 Me m-carboxamido-m-methylbenzyloxy 173 OH m-carboxamido-m-methylbenzyloxy 174 NH ₂ m-carboxamido-m-methylbenzyloxy 175 Me (3-carboxamido-5-methylphenoxy)methyl 176 OH (3-carboxamido-5-methylphenoxy)methyl 177 NH ₂ (3-carboxamido-5-methylphenoxy)methyl 178 Me m-hydroxycarbonyl-m-methylbenzyloxy 179 OH m-hydroxycarbonyl-m-methylbenzyloxy 180 NH ₂ m-hydroxycarbonyl-m-methylbenzyloxy 181 Me (3-hydroxycarbonyl-5-methylphenoxy)methyl 182 OH (3-hydroxycarbonyl-5-methylphenoxy)methyl		OH	
m,m-dibromobenzyloxy m,m-dibromobenzyloxy m,m-dibromobenzyloxy m,m-dibromobenzyloxy m,m-bis(trifluoromethyl)benzyloxy m,m-bis(trifluoromethyl)benzyloxy m,m-bis(trifluoromethyl)benzyloxy m,m-bis(trifluoromethyl)benzyloxy m,m-bis(trifluoromethyl)phenoxylmethyl mobel [3,5-bis(trifluoromethyl)phenoxylmethyl	NH ₂		
165 NH ₂ m,m-dibromobenzyloxy  166 Me m,m-bis(trifluoromethyl)benzyloxy  167 OH m,m-bis(trifluoromethyl)benzyloxy  168 NH ₂ m,m-bis(trifluoromethyl)benzyloxy  169 Me [3,5-bis(trifluoromethyl)phenoxy]methyl  170 OH [3,5-bis(trifluoromethyl)phenoxy]methyl  171 NH ₂ [3,5-bis(trifluoromethyl)phenoxy]methyl  172 Me m-carboxamido-m-methylbenzyloxy  173 OH m-carboxamido-m-methylbenzyloxy  174 NH ₂ m-carboxamido-m-methylbenzyloxy  175 Me (3-carboxamido-5-methylphenoxy)methyl  176 OH (3-carboxamido-5-methylphenoxy)methyl  177 NH ₂ (3-carboxamido-5-methylphenoxy)methyl  178 Me m-hydroxycarbonyl-m-methylbenzyloxy  179 OH m-hydroxycarbonyl-m-methylbenzyloxy  180 NH ₂ m-hydroxycarbonyl-m-methylbenzyloxy  181 Me (3-hydroxycarbonyl-5-methylphenoxy)methyl  182 OH (3-hydroxycarbonyl-5-methylphenoxy)methyl	163	Me	
166 Me m,m-bis(trifluoromethyl)benzyloxy 167 OH m,m-bis(trifluoromethyl)benzyloxy 168 NH ₂ m,m-bis(trifluoromethyl)benzyloxy 169 Me [3,5-bis(trifluoromethyl)phenoxy]methyl 170 OH [3,5-bis(trifluoromethyl)phenoxy]methyl 171 NH ₂ [3,5-bis(trifluoromethyl)phenoxy]methyl 172 Me m-carboxamido-m-methylbenzyloxy 173 OH m-carboxamido-m-methylbenzyloxy 174 NH ₂ m-carboxamido-m-methylbenzyloxy 175 Me (3-carboxamido-5-methylphenoxy)methyl 176 OH (3-carboxamido-5-methylphenoxy)methyl 177 NH ₂ (3-carboxamido-5-methylphenoxy)methyl 178 Me m-hydroxycarbonyl-m-methylbenzyloxy 179 OH m-hydroxycarbonyl-m-methylbenzyloxy 180 NH ₂ m-hydroxycarbonyl-m-methylbenzyloxy 181 Me (3-hydroxycarbonyl-5-methylphenoxy)methyl 182 OH (3-hydroxycarbonyl-5-methylphenoxy)methyl	164	OH	m,m-dibromobenzyloxy
167 OH m,m-bis(trifluoromethyl)benzyloxy 168 NH ₂ m,m-bis(trifluoromethyl)benzyloxy 169 Me [3,5-bis(trifluoromethyl)phenoxy]methyl 170 OH [3,5-bis(trifluoromethyl)phenoxy]methyl 171 NH ₂ [3,5-bis(trifluoromethyl)phenoxy]methyl 172 Me m-carboxamido-m-methylbenzyloxy 173 OH m-carboxamido-m-methylbenzyloxy 174 NH ₂ m-carboxamido-m-methylbenzyloxy 175 Me (3-carboxamido-5-methylphenoxy)methyl 176 OH (3-carboxamido-5-methylphenoxy)methyl 177 NH ₂ (3-carboxamido-5-methylphenoxy)methyl 178 Me m-hydroxycarbonyl-m-methylbenzyloxy 179 OH m-hydroxycarbonyl-m-methylbenzyloxy 180 NH ₂ m-hydroxycarbonyl-m-methylbenzyloxy 181 Me (3-hydroxycarbonyl-5-methylphenoxy)methyl 182 OH (3-hydroxycarbonyl-5-methylphenoxy)methyl	165	NH ₂	
167 OH m,m-bis(trifluoromethyl)benzyloxy 168 NH ₂ m,m-bis(trifluoromethyl)benzyloxy 169 Me [3,5-bis(trifluoromethyl)phenoxy]methyl 170 OH [3,5-bis(trifluoromethyl)phenoxy]methyl 171 NH ₂ [3,5-bis(trifluoromethyl)phenoxy]methyl 172 Me m-carboxamido-m-methylbenzyloxy 173 OH m-carboxamido-m-methylbenzyloxy 174 NH ₂ m-carboxamido-m-methylbenzyloxy 175 Me (3-carboxamido-5-methylphenoxy)methyl 176 OH (3-carboxamido-5-methylphenoxy)methyl 177 NH ₂ (3-carboxamido-5-methylphenoxy)methyl 178 Me m-hydroxycarbonyl-m-methylbenzyloxy 179 OH m-hydroxycarbonyl-m-methylbenzyloxy 180 NH ₂ m-hydroxycarbonyl-m-methylbenzyloxy 181 Me (3-hydroxycarbonyl-5-methylphenoxy)methyl 182 OH (3-hydroxycarbonyl-5-methylphenoxy)methyl	166	Me	
168 NH ₂ m,m-bis(trifluoromethyl)benzyloxy  169 Me [3,5-bis(trifluoromethyl)phenoxy]methyl  170 OH [3,5-bis(trifluoromethyl)phenoxy]methyl  171 NH ₂ [3,5-bis(trifluoromethyl)phenoxy]methyl  172 Me m-carboxamido-m-methylbenzyloxy  173 OH m-carboxamido-m-methylbenzyloxy  174 NH ₂ m-carboxamido-m-methylbenzyloxy  175 Me (3-carboxamido-5-methylphenoxy)methyl  176 OH (3-carboxamido-5-methylphenoxy)methyl  177 NH ₂ (3-carboxamido-5-methylphenoxy)methyl  178 Me m-hydroxycarbonyl-m-methylbenzyloxy  179 OH m-hydroxycarbonyl-m-methylbenzyloxy  180 NH ₂ m-hydroxycarbonyl-m-methylbenzyloxy  181 Me (3-hydroxycarbonyl-5-methylphenoxy)methyl  182 OH (3-hydroxycarbonyl-5-methylphenoxy)methyl			m,m-bis(trifluoromethyl)benzyloxy
169 Me [3,5-bis(trifluoromethyl)phenoxy]methyl 170 OH [3,5-bis(trifluoromethyl)phenoxy]methyl 171 NH ₂ [3,5-bis(trifluoromethyl)phenoxy]methyl 172 Me m-carboxamido-m-methylbenzyloxy 173 OH m-carboxamido-m-methylbenzyloxy 174 NH ₂ m-carboxamido-m-methylbenzyloxy 175 Me (3-carboxamido-5-methylphenoxy)methyl 176 OH (3-carboxamido-5-methylphenoxy)methyl 177 NH ₂ (3-carboxamido-5-methylphenoxy)methyl 178 Me m-hydroxycarbonyl-m-methylbenzyloxy 179 OH m-hydroxycarbonyl-m-methylbenzyloxy 180 NH ₂ m-hydroxycarbonyl-m-methylbenzyloxy 181 Me (3-hydroxycarbonyl-5-methylphenoxy)methyl 182 OH (3-hydroxycarbonyl-5-methylphenoxy)methyl			
170 OH [3,5-bis(trifluoromethyl)phenoxy]methyl 171 NH ₂ [3,5-bis(trifluoromethyl)phenoxy]methyl 172 Me m-carboxamido-m-methylbenzyloxy 173 OH m-carboxamido-m-methylbenzyloxy 174 NH ₂ m-carboxamido-m-methylbenzyloxy 175 Me (3-carboxamido-5-methylphenoxy)methyl 176 OH (3-carboxamido-5-methylphenoxy)methyl 177 NH ₂ (3-carboxamido-5-methylphenoxy)methyl 178 Me m-hydroxycarbonyl-m-methylbenzyloxy 179 OH m-hydroxycarbonyl-m-methylbenzyloxy 180 NH ₂ m-hydroxycarbonyl-m-methylbenzyloxy 181 Me (3-hydroxycarbonyl-5-methylphenoxy)methyl 182 OH (3-hydroxycarbonyl-5-methylphenoxy)methyl			
171 NH ₂ [3,5-bis(trifluoromethyl)phenoxy]methyl  172 Me m-carboxamido-m-methylbenzyloxy  173 OH m-carboxamido-m-methylbenzyloxy  174 NH ₂ m-carboxamido-m-methylbenzyloxy  175 Me (3-carboxamido-5-methylphenoxy)methyl  176 OH (3-carboxamido-5-methylphenoxy)methyl  177 NH ₂ (3-carboxamido-5-methylphenoxy)methyl  178 Me m-hydroxycarbonyl-m-methylbenzyloxy  179 OH m-hydroxycarbonyl-m-methylbenzyloxy  180 NH ₂ m-hydroxycarbonyl-m-methylbenzyloxy  181 Me (3-hydroxycarbonyl-5-methylphenoxy)methyl  182 OH (3-hydroxycarbonyl-5-methylphenoxy)methyl			
172 Me m-carboxamido-m-methylbenzyloxy 173 OH m-carboxamido-m-methylbenzyloxy 174 NH ₂ m-carboxamido-m-methylbenzyloxy 175 Me (3-carboxamido-5-methylphenoxy)methyl 176 OH (3-carboxamido-5-methylphenoxy)methyl 177 NH ₂ (3-carboxamido-5-methylphenoxy)methyl 178 Me m-hydroxycarbonyl-m-methylbenzyloxy 179 OH m-hydroxycarbonyl-m-methylbenzyloxy 180 NH ₂ m-hydroxycarbonyl-m-methylbenzyloxy 181 Me (3-hydroxycarbonyl-5-methylphenoxy)methyl 182 OH (3-hydroxycarbonyl-5-methylphenoxy)methyl			
173 OH m-carboxamido-m-methylbenzyloxy 174 NH ₂ m-carboxamido-m-methylbenzyloxy 175 Me (3-carboxamido-5-methylphenoxy)methyl 176 OH (3-carboxamido-5-methylphenoxy)methyl 177 NH ₂ (3-carboxamido-5-methylphenoxy)methyl 178 Me m-hydroxycarbonyl-m-methylbenzyloxy 179 OH m-hydroxycarbonyl-m-methylbenzyloxy 180 NH ₂ m-hydroxycarbonyl-m-methylbenzyloxy 181 Me (3-hydroxycarbonyl-5-methylphenoxy)methyl 182 OH (3-hydroxycarbonyl-5-methylphenoxy)methyl			m-carboxamido-m-methylbenzyloxy
174 NH ₂ m-carboxamido-m-methylbenzyloxy  175 Me (3-carboxamido-5-methylphenoxy)methyl  176 OH (3-carboxamido-5-methylphenoxy)methyl  177 NH ₂ (3-carboxamido-5-methylphenoxy)methyl  178 Me m-hydroxycarbonyl-m-methylbenzyloxy  179 OH m-hydroxycarbonyl-m-methylbenzyloxy  180 NH ₂ m-hydroxycarbonyl-m-methylbenzyloxy  181 Me (3-hydroxycarbonyl-5-methylphenoxy)methyl  182 OH (3-hydroxycarbonyl-5-methylphenoxy)methyl			m-carboxamido-m-methylbenzyloxy
175 Me (3-carboxamido-5-methylphenoxy)methyl 176 OH (3-carboxamido-5-methylphenoxy)methyl 177 NH ₂ (3-carboxamido-5-methylphenoxy)methyl 178 Me m-hydroxycarbonyl-m-methylbenzyloxy 179 OH m-hydroxycarbonyl-m-methylbenzyloxy 180 NH ₂ m-hydroxycarbonyl-m-methylbenzyloxy 181 Me (3-hydroxycarbonyl-5-methylphenoxy)methyl 182 OH (3-hydroxycarbonyl-5-methylphenoxy)methyl			
176 OH (3-carboxamido-5-methylphenoxy)methyl 177 NH ₂ (3-carboxamido-5-methylphenoxy)methyl 178 Me m-hydroxycarbonyl-m-methylbenzyloxy 179 OH m-hydroxycarbonyl-m-methylbenzyloxy 180 NH ₂ m-hydroxycarbonyl-m-methylbenzyloxy 181 Me (3-hydroxycarbonyl-5-methylphenoxy)methyl 182 OH (3-hydroxycarbonyl-5-methylphenoxy)methyl			
177 NH ₂ (3-carboxamido-5-methylphenoxy)methyl  178 Me m-hydroxycarbonyl-m-methylbenzyloxy  179 OH m-hydroxycarbonyl-m-methylbenzyloxy  180 NH ₂ m-hydroxycarbonyl-m-methylbenzyloxy  181 Me (3-hydroxycarbonyl-5-methylphenoxy)methyl  182 OH (3-hydroxycarbonyl-5-methylphenoxy)methyl			
178 Me m-hydroxycarbonyl-m-methylbenzyloxy 179 OH m-hydroxycarbonyl-m-methylbenzyloxy 180 NH ₂ m-hydroxycarbonyl-m-methylbenzyloxy 181 Me (3-hydroxycarbonyl-5-methylphenoxy)methyl 182 OH (3-hydroxycarbonyl-5-methylphenoxy)methyl			
179 OH m-hydroxycarbonyl-m-methylbenzyloxy 180 NH ₂ m-hydroxycarbonyl-m-methylbenzyloxy 181 Me (3-hydroxycarbonyl-5-methylphenoxy)methyl 182 OH (3-hydroxycarbonyl-5-methylphenoxy)methyl			
180 NH ₂ m-hydroxycarbonyl-m-methylbenzyloxy  181 Me (3-hydroxycarbonyl-5-methylphenoxy)methyl  182 OH (3-hydroxycarbonyl-5-methylphenoxy)methyl			m-nydroxycarbonyr-m-metnyrbenzyroxy
181 Me (3-hydroxycarbonyl-5-methylphenoxy)methyl 182 OH (3-hydroxycarbonyl-5-methylphenoxy)methyl			m-nydroxycarbonyl-m-metnylbenzyloxy
182 OH (3-hydroxycarbonyl-5-methylphenoxy)methyl			m-nydroxycarponyr-m-metnyrbenzyroxy
183 NH ₂ (3-hydroxycarbonyl-5-methylphenoxy)methyl			
	183	NH ₂	(3-hydroxycarbony1-5-methylphenoxy)methyl

•	

184	Me	o-phenylbenzyloxy
185	ОН	o-phenylbenzyloxy
186	NH ₂	o-phenylbenzyloxy
187	Me	m-phenylbenzyloxy
188	ОН	m-phenylbenzyloxy
189	NH,	m-phenylbenzyloxy
190	Me	(naphth-1-yl)methoxy
191	ОН	(naphth-1-yl)methoxy
192	NH,	(naphth-1-yl)methoxy
193-	—−Me	(naphth-2-yl-)methoxy
194	OH	(naphth-2-yl)methoxy
195	NH ₂	(naphth-2-y1)methoxy
196	Me	(2-methylnaphth-1-yl)methoxy
197	ОН	(2-methylnaphth-1-yl)methoxy
198	NH ₂	(2-methylnaphth-1-yl)methoxy (2-methylnaphth-1-yl)methoxy
	T	
199	Me	(4-methylnaphth-2-yl)methoxy
200	OH	(4-methylnaphth-2-yl)methoxy
201	NH ₂	(4-methylnaphth-2-yl)methoxy
202	Me	(pyridin-3-yl)methoxy
203	OH	(pyridin-3-yl)methoxy
204	NH ₂	(pyridin-3-yl)methoxy
205	Me	(pyridin-4-yl)methoxy
206	ОН	(pyridin-4-yl)methoxy
207	NH ₂	(pyridin-4-yl)methoxy
208	Me	(3,5-dichloropyridin-4-yl)methoxy
209	OH	(3,5-dichloropyridin-4-yl)methoxy
210	$NH_2$	(3,5-dichloropyridin-4-yl)methoxy
211	Me	(3,5-dimethylpyridin-4-yl)methoxy
212	ОН	(3,5-dimethylpyridin-4-yl)methoxy
213	NH ₂	(3,5-dimethylpyridin-4-yl)methoxy
214	Me	(1,2,3-benzotriazol-1-yl)methoxy
215	ОН	(1,2,3-benzotriazol-1-y1)methoxy
216	NH ₂	(1,2,3-benzotriazol-1-yl)methoxy
217	Me	benzhydroxy
218	ОН	benzhydroxy
219	$NH_2$	benzhydroxy
220	Me	p-(1,2,3-thiadiazol-5-yl)benzyloxy
221	ОН	p-(1,2,3-thiadiazol-5-yl)benzyloxy
222	$NH_2$	p-(1,2,3-thiadiazol-5-yl)benzyloxy
223	Me	o-(tetrazol-5-yl)benzyloxy
224	ОН	o-(tetrazol-5-yl)benzyloxy
225	NH ₂	o-(tetrazol-5-vl)benzyloxy
226	Me	m-(tetrazol-5-yl)benzyloxy
227	OH	m-(tetrazol-5-yl)benzyloxy
228	NH ₂	m-(tetrazol-5-yl)benzyloxy
229		[3-methyl-5-(tetrazol-5-yl)phenoxy]methyl
230	Me OH	[3-methyl-5-(tetrazol-5-yl)phenoxy]methyl [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl
		[3-methyl-5-(tetrazol-5-yl)phenoxy]methyl
231	NH ₂	[3-methyl-5-(tetrazol-5-yl)phenoxy]methyl
232	Me	m-methyl-m-(tetrazol-5-yl)benzyloxy
233	OH	m-methyl-m-(tetrazol-5-yl)benzyloxy
234	NH ₂	m-methyl-m-(tetrazol-5-yl)benzyloxy
235	Me	2-oxo-2-phenylethoxy
236	OH	2-oxo-2-phenylethoxy
237	$NH_2$	2-oxo-2-phenylethoxy
238	Me	carbo-t-butoxymethoxy
239	ОН	carbo-t-butoxymethoxy
240	$NH_2$	carbo-t-butoxymethoxy
241	Me	(benzimidazol-2-yl)methoxy
242	ОН	(benzimidazol-2-yl)methoxy
243	$NH_2$	(benzimidazol-2-yl)methoxy

244	Me	(imidazol-2-yl)methoxy
245	ОН	(imidazol-2-yl)methoxy
246	NH ₂	(imidazol-2-yl)methoxy
247	Me	(1,4-dimethylimidazol-5-yl)methoxy
248	ОН	(1,4-dimethylimidazol-5-yl)methoxy
249	NH ₂	(1,4-dimethylimidazol-5-yl)methoxy
250	Me	(thiazol-4-yl)methoxy
251	ОН	(thiazol-4-yl)methoxy
252	NH ₂	(thiazol-4-yl)methoxy
253	Me	(quinolin-2-y1)methoxy
254	OH	(quinolin-2-yl)methoxy
255	NH ₂	(quinolin-2-yl)methoxy
256	Me	(1,3-benzodioxo-5-yl)methoxy
257	ОН	(1,3-benzodioxo-5-yl)methoxy
258	NH ₂	(1,3-benzodioxo-5-yl)methoxy
259	Me	(3,5-dimethylisoxazol-4-yl)methoxy
260	OH	(3,5-dimethylisoxazol-4-yl)methoxy
261	NH ₂	(3,5-dimethylisoxazol-4-yl)methoxy
262	Me	(3,5-dimethylpyrazol-1-yl)methoxy
263	OH	(3,5-dimethylpyrazol-1-yl)methoxy
_264	NH ₂	(3,5-dimethylpyrazol-1-yl)methoxy
265	Me	(1,3,5-trimethylpyrazol-4-yl)methoxy
266	_ OH	(1,3,5-trimethylpyrazol-4-yl)methoxy
267	NH ₂	(1,3,5-trimethylpyrazol-4-yl)methoxy

# TABLE 6

HO-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N		R	HO-H-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N
H ₂ N O		R	HO N HO R HO R
NH ₂		<b>₽</b>	HO HO HO HO HO HO HO HO HO HO HO HO HO H
HO HO N		<b>∠</b> _R	HO N HO N X
Ex #	X CH ₂	Y CH ₂	ж R Н
2 3	CH₂ O	O CH ₂	<b>н</b> Н
4 5	CH ₂ CH ₂	CH₂ O	methyl methyl
6	0	CH ₂	methyl
7 8	CH₂ CH₂	CH₂ O	ethyl ethyl
9	0	CH ₂	ethylethyl
10 11	CH₂ CH₂	CH₂ O	isopropyl isopropyl
12	CH₂ O	CH ₂	isopropyl
13	CH ₂	CH ₂	phenyl
14 15	CH₂ O	O CH ₂	phenyl phenyl
16	CH ₂	CH ₂	benzyl
17 18	CH ₂ O	O CH ₂	benzyl benzyl
19	CH ₂	CH ₂	o-methylbenzyl
20	CH ₂	0	o-methylbenzyl
21	O CH ₂	CH ₂ CH ₂	o-methylbenzyl m-methylbenzyl
23	CH₂ CH₂	0	m-methylbenzyl
24	0	CH ₂	m-methylbenzyl_

. 25	CH ₂	CH ₂	o,o-dimethylbenzyl
26	CH ₂	0	o,o-dimethylbenzyl
27	0	CH ₂	o,o-dimethylbenzyl
28	CH ₂	CH ₂	m,m-dimethylbenzyl
29	CH ₂	0	m,m-dimethylbenzyl
30	0	CH ₂	m,m-dimethylbenzyl
31	CH ₂	CH ₂	2-phenylethyl
32	CH ₂	o Î	2-phenylethyl
33	o ်	CH ₂	2-phenylethyl
3.4	—СН <del>2</del>	−CH ₂	2-(2-methy-lpheny-l)ethy-l
35	CH,	<b>်</b>	2-(2-methylphenyl)ethyl
36	ုဝ်	CH ₂	2-(2-methylphenyl)ethyl
37	CH ₂	CH ₂	2-(3-methylphenyl)ethyl
38	CH ₂	0	2-(3-methylphenyl)ethyl
39	0	CH,	2-(3-methylphenyl)ethyl
40	CH ₂	CH ₂	2-(2,6-dimethylphenyl)ethyl
41	CH ₂	0	2-(2,6-dimethylphenyl)ethyl
42	0	CH ₂	2-(2,6-dimethylphenyl)ethyl
43	CH ₂	CH ₂	2-(3,5-dimethylphenyl)ethyl
44	CH ₂	0	2-(3,5-dimethylphenyl)ethyl
45	0	CH ₂	2-(3,5-dimethylphenyl)ethyl
46	<del></del>		2-(3-amino-5-methylphenyl)ethyl
47	CH ₂	CH₂ O	2-(3-amino-5-methylphenyl)ethyl
48	0	CH,	2-(3-amino-3-methylphenyl)ethyl
			2-(syridin-4-yl)ethyl
49 50	CH ₂	CH ₂	2-(pyridin-4-yl)ethyl 2-(pyridin-4-yl)ethyl
50 51	CH ₂ O	0	
		CH ₂	2-(pyridin-4-yl)ethyl 2-(2,6-dimethylpyridin-4-yl)ethyl
52 53	CH ₂	CH ₂	
53	CH₂	0	2-(2,6-dimethylpyridin-4-yl)ethyl
54	.0	CH ₂	2-(2,6-dimethylpyridin-4-yl)ethyl
55 5.6	CH ₂	CH₂	2-(3,5-dimethylpyridin-4-yl)ethyl
56 57	CH ₂	0	2-(3,5-dimethylpyridin-4-yl)ethyl
<u>57</u>	0	CH ₂	2-(3,5-dimethylpyridin-4-yl)ethyl
58	CH ₂	CH ₂	styryl
59 60	CH ₂	0	styryl
60	0	CH ₂	styryl
61	CH ₂	CH₂	hydroxy
62	CH ₂	0	hydroxy
63	0	CH ₂	hydroxy
64	CH ₂	CH ₂	methoxy
65	CH ₂	0	methoxy
66	0	CH ₂	methoxy
67	CH ₂	CH ₂	ethoxy
68	CH ₂	0	ethoxy
69	0	CH ₂	ethoxy
70	CH ₂	CH ₂	isopropyloxy
71	CH ₂	0	isopropyloxy
72	0	CH ₂	isopropyloxy
73	CH ₂	CH ₂	tert-butoxy
74	CH ₂	0	tert-butoxy
75	0	CH ₂	tert-butoxy
76	CH ₂	CH ₂	cyclohexyloxy
77	CH ₂	0	cyclohexyloxy
78	0	CH ₂	cyclohexyloxy
79	CH ₂	CH ₂	phenoxy
80	CH ₂	0	phenoxy
81	. 0	CH ₂	phenoxy
82	CH ₂	CH ₂	o-methylphenoxy
83	CH ₂	0	o-methylphenoxy
84	0	CH ₂	o-methylphenoxy

85	CH ₂	CH ₂	m-methylphenoxy
86	CH ₂	0	m-methylphenoxy
87	oʻ	CH ₂	m-methylphenoxy
88	CH ₂	CH ₂	o,o-dimethylphenoxy
89	CH ₂	0	o,o-dimethylphenoxy
90	0	CH ₂	o,o-dimethylphenoxy
91	CH ₂	CH ₂	m, m-dimethylphenoxy
92	CH ₂	0	m, m-dimethylphenoxy
93	0	4	m, m-dimethylphenoxy
		CH ₂	
94	CH ₂	CH ₂	cinnamyloxy
95	CH ₂	0	cinnamyloxy
96	0	CH ₂	cinnamyloxy
97	CH ₂	CH ₂	benzyloxy
98	CH ₂	0	benzyloxy
99	0	CH ₂	benzyloxy
100	CH ₂	CH ₂	phenoxymethyl
101	CH ₂	0	phenoxymethyl
102	0	CH ₂	phenoxymethyl
103	CH ₂	CH ₂	o-methylbenzyloxy
104	CH ₂	0	o-methylbenzyloxy
105	o ်	CH ₂	o-methylbenzyloxy
106	CH ₂	CH ₂	m-methylbenzyloxy
107	CH ₂	0	m-methylbenzyloxy
108	0	CH ₂	m-methylbenzyloxy
109	CH ₂	CH ₂	o,o-dimethylbenzyloxy
110	CH ₂	0	o,o-dimethylbenzyloxy
111	0	CH ₂	o,o-dimethylbenzyloxy
112	T		(2,6-dimethylphenoxy)methyl
113	CH₂ CH₂	CH₂ O	(2,6-dimethylphenoxy)methyl
114	0	CH ₂	(2,6-dimethylphenoxy)methyl
115		<del></del>	m,m-dimethylbenzyloxy
116	CH ₂	CH ₂	m,m-dimethylbenzyloxy
117	CH₂ O	0	m,m-dimethylbenzyloxy
		CH ₂	
118	CH ₂	CH ₂	(3,5-dimethylphenoxy)methyl
119	CH ₂	0	(3,5-dimethylphenoxy)methyl
120	0	CH ₂	(3,5-dimethylphenoxy)methyl
121	CH ₂	CH ₂	o,o-dicyanobenzyloxy
122	CH ₂	0	o,o-dicyanobenzyloxy
123	0	CH ₂	o,o-dicyanobenzyloxy
124	CH ₂	CH ₂	m,m-dicyanobenzyloxy
125	CH ₂	0	m,m-dicyanobenzyloxy
126	0	CH ₂	m,m-dicyanobenzyloxy
127	CH ₂	CH ₂	(2,6-dicyanophenoxy)methyl
128	CH ₂	0	(2,6-dicyanophenoxy)methyl
129	0	CH ₂	(2,6-dicyanophenoxy)methyl
130	CH ₂	CH ₂	(3,5-dicyanophenoxy)methyl
131	CH ₂	o T	(3,5-dicyanophenoxy)methyl
132	o	CH ₂	(3,5-dicyanophenoxy)methyl
133	CH ₂	CH ₂	o-amino-o-cyanobenzyloxy
134	CH ₂	o Î	o-amino-o-cyanobenzyloxy
135	0	CH ₂	o-amino-o-cyanobenzyloxy
136	CH ₂	CH ₂	m-amino-m-cyanobenzyloxy
137	CH ₂	0	m-amino-m-cyanobenzyloxy
138	0	CH ₂	m-amino-m-cyanobenzyloxy
139	CH ₂	CH ₂	o-amino-o-nitrobenzyloxy
140	CH ₂	0	o-amino-o-nitrobenzyloxy
141	0	CH ₂	o-amino-o-nitrobenzyloxy
142	CH ₂	CH ₂	m-amino-m-nitrobenzyloxy
143	CH ₂	0	m-amino-m-nitrobenzyloxy
144	0	CH ₂	m-amino-m-nitrobenzyloxy

145	CH ₂	CH ₂	p-amino-m,m-dimethylbenzyloxy
146	CH ₂	0	p-amino-m,m-dimethylbenzyloxy
147	0	CH ₂	p-amino-m,m-dimethylbenzyloxy
148	CH ₂	CH ₂	o-amino-o-methylbenzyloxy
149	CH ₂	0	o-amino-o-methylbenzyloxy
150	0	CH ₂	o-amino-o-methylbenzyloxy
151	CH ₂	CH ₂	m-amino-m-methylbenzyloxy
152	CH ₂	0	m-amino-m-methylbenzyloxy
153	0	CH ₂	m-amino-m-methylbenzyloxy
154_	CH ₂ _	CH ₂	o-cyano-o-methylbenzyloxy
155	CH ₂	0	o-cyano-o-methylbenzyloxy
156	0	CH ₂	o-cyano-o-methylbenzyloxy
157	CH ₂	CH ₂	m-cyano-m-methylbenzyloxy
158	CH ₂	0	m-cyano-m-methylbenzyloxy
159_	0	CH ₂	m-cyano-m-methylbenzyloxy
160	CH ₂	CH ₂	o-cyano-o-nitrobenzyloxy
161	CH ₂	0	o-cyano-o-nitrobenzyloxy
162	0	CH ₂	o-cyano-o-nitrobenzyloxy
163	CH ₂	CH ₂	(2-cyano-6-nitrophenoxy)methyl
164	CH ₂	0	(2-cyano-6-nitrophenoxy) methyl
165	o ¯	CH,	(2-cyano-6-nitrophenoxy) methyl
166	CH ₂	CH ₂	m-cyano-m-nitrobenzyloxy
167	CH ₂	o	m-cyano-m-nitrobenzyloxy
168	0	CH ₂	m-cyano-m-nitrobenzyloxy
169	CH ₂	CH ₂	(3-cyano-5-nitrophenoxy)methyl
170	CH ₂	of	(3-cyano-5-nitrophenoxy) methyl
171	0	CH ₂	(3-cyano-5-nitrophenoxy)methyl
172	CH ₂	CH ₂	m,m-dimethoxybenzyloxy
173	CH ₂	0	m, m-dimethoxybenzyloxy
174	o	CH ₂	m,m-dimethoxybenzyloxy
175	CH ₂	CH ₂	m,m-dichlorobenzyloxy
176	CH ₂	0	m,m-dichlorobenzyloxy
177	0	CH ₂	m, m-dichlorobenzyloxy
178	CH ₂	CH ₂	(3,5-dichlorophenoxy)methyl
179	CH ₂	0	(3,5-dichlorophenoxy)methyl
180	0	CH ₂	(3,5-dichlorophenoxy)methyl
181	CH ₂	CH ₂	m,m-dibromobenzyloxy
182	CH ₂	0	m,m-dibromobenzyloxy
183	0	CH ₂	m,m-dibromobenzyloxy
184	CH ₂	CH ₂	m,m-bis(trifluoromethyl)benzyloxy
185	CH ₂	0	m,m-bis(trifluoromethyl)benzyloxy
186	0	CH ₂	m,m-bis(trifluoromethyl)benzyloxy
187	CH ₂	CH ₂	[3,5-bis(trifluoromethyl)phenoxy]methyl
188	CH ₂	0	[3,5-bis(trifluoromethyl)phenoxy]methyl
189	0	CH ₂	[3,5-bis(trifluoromethyl)phenoxy]methyl
190	CH ₂	CH ₂	m-carboxamido-m-methylbenzyloxy
191	CH ₂	0	m-carboxamido-m-methylbenzyloxy
192	. 0	CH ₂	m-carboxamido-m-methylbenzyloxy
193	CH ₂	CH ₂	(3-carboxamido-5-methylphenoxy)methyl
194	CH ₂	0	(3-carboxamido-5-methylphenoxy)methyl
195	0	CH ₂	(3-carboxamido-5-methylphenoxy)methyl
196	CH ₂	CH ₂	m-hydroxycarbonyl-m-methylbenzyloxy
197	CH ₂	0	m-hydroxycarbonyl-m-methylbenzyloxy
198	0	CH ₂	m-hydroxycarbonyl-m-methylbenzyloxy
199	$CH_2$	CH ₂	(3-hydroxycarbonyl-5-methylphenoxy)methyl
200	CH ₂	0	(3-hydroxycarbonyl-5-methylphenoxy)methyl
201		CH ₂	(3-hydroxycarbonyl-5-methylphenoxy)methyl
202	$CH_2$	CH ₂	o-phenylbenzyloxy
203	CH ₂	0	o-phenylbenzyloxy
204		CH ₂	o-phenylbenzyloxy

	·		
205	CH ₂	CH ₂	m-phenylbenzyloxy
206	CH ₂	0	m-phenylbenzyloxy
207	0	CH ₂	m-phenylbenzyloxy
208	CH ₂	CH ₂	(naphth-1-yl)methoxy
209	CH ₂	0	(naphth-1-yl)methoxy
210	0	CH ₂	(naphth-1-yl)methoxy
211	CH ₂	CH ₂	(naphth-2-yl)methoxy
212	CH ₂	0	(naphth-2-yl)methoxy
213	0	CH ₂	(naphth-2-yl)methoxy
214	CH ₂	CH ₂	(2-methylnaphth-1-yl)methoxy
215	CH ₂	0	(2-methylnaphth-1-yl)methoxy
216	0	CH ₂	(2-methylnaphth-1-yl)methoxy
217	CH ₂	CH ₂	(4-methylnaphth-2-yl)methoxy
218	CH ₂	o	(4-methylnaphth-2-yl)methoxy
219	0	CH ₂	(4-methylnaphth-2-yl)methoxy
220	CH ₂	CH ₂	(pyridin-3-yl)methoxy
221	CH ₂	o	(pyridin-3-yl) methoxy
222	o T	CH ₂	(pyridin-3-yl) methoxy
223	CH ₂	CH ₂	(pyridin-4-yl)methoxy
224	CH ₂	0	(pyridin-4-yl)methoxy
225	o *	CH ₂	(pyridin-4-yl)methoxy
226	CH ₂	CH ₂	(3,5-dichloropyridin-4-yl)methoxy
227	CH ₂	o [*]	(3,5-dichloropyridin-4-yl)methoxy
228	o ်	CH ₂	(3,5-dichloropyridin-4-yl)methoxy
229	CH ₂	CH ₂	(3,5-dimethylpyridin-4-yl)methoxy
230	CH ₂	0	(3,5-dimethylpyridin-4-yl)methoxy
231	o Î	CH ₂	(3,5-dimethylpyridin-4-yl)methoxy
232	CH ₂	CH ₂	(1,2,3-benzotriazol-1-yl)methoxy
233	CH ₂	o ²	(1,2,3-benzotriazol-1-yl)methoxy
234	o ်	CH2	(1,2,3-benzotriazol-1-yl)methoxy
235	CH ₂	CH ₂	benzhydroxy
		0	benzhydroxy
236 237	CH ₂ O	-	
236 237	CH₂ O	O CH ₂	benzhydroxy benzhydroxy
236	CH ₂ O CH ₂	0	benzhydroxy
236 237 238	CH₂ O	$O$ $CH_2$ $CH_2$	benzhydroxy benzhydroxy p-(1,2,3-thiadiazol-5-yl)benzyloxy
236 237 238 239 240	CH ₂ O CH ₂ CH ₂	O $CH_2$ $CH_2$ O $CH_2$	benzhydroxy benzhydroxy p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy
236 237 238 239	$CH_2$ $O$ $CH_2$ $CH_2$ $O$ $CH_2$	O CH ₂ CH ₂ O	benzhydroxy benzhydroxy p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy
236 237 238 239 240 241	CH ₂ O CH ₂ CH ₂	$\begin{array}{c} \text{O} \\ \text{CH}_2 \\ \text{CH}_2 \\ \text{O} \\ \text{CH}_2 \\ \text{CH}_2 \end{array}$	benzhydroxy benzhydroxy p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy
236 237 238 239 240 241 242	CH ₂ O CH ₂ CH ₂ O CH ₂ CH ₂	O CH ₂ CH ₂ O CH ₂ CH ₂ O CH ₂	benzhydroxy benzhydroxy  p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy
236 237 238 239 240 241 242 243	CH ₂ O CH ₂ CH ₂ O CH ₂ CH ₂ O	O CH ₂ CH ₂ O CH ₂ CH ₂	benzhydroxy benzhydroxy  p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy
236 237 238 239 240 241 242 243 244	CH ₂ O CH ₂ CH ₂ O CH ₂ CH ₂	O CH ₂ O CH ₂ O CH ₂ O CH ₂	benzhydroxy benzhydroxy  p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy
236 237 238 239 240 241 242 243 244 245	CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O	O CH ₂ CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂	benzhydroxy benzhydroxy  p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy
236 237 238 239 240 241 242 243 244 245 246	CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O	O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂	benzhydroxy benzhydroxy  p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy
236 237 238 239 240 241 242 243 244 245 246 247	CH ₂ O CH ₂ O CH ₂ O CH ₂ CH ₂ O CH ₂ O CH ₂ O CH ₂ CH ₂ O CH ₂	O CH ₂ CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂	benzhydroxy benzhydroxy  p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl
236 237 238 239 240 241 242 243 244 245 246 247 248	CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ CH ₂ CH ₂ O CH ₂ CH ₂ O	O CH ₂ CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂	benzhydroxy benzhydroxy  p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl
236 237 238 239 240 241 242 243 244 245 246 247 248 249	CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ CH ₂ O CH ₂	O CH ₂ CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂	benzhydroxy benzhydroxy  p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl
236 237 238 239 240 241 242 243 244 245 246 247 248 249	CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂	O CH ₂ CH ₂ O CH ₂ O CH ₂ O CH ₂ CH ₂ O CH ₂ CH ₂ O CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂	benzhydroxy benzhydroxy  p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl m-methyl-m-(tetrazol-5-yl)benzyloxy
236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251	CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ CH ₂ O CH ₂	O CH ₂ CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂	benzhydroxy benzhydroxy  p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl m-methyl-m-(tetrazol-5-yl)benzyloxy m-methyl-m-(tetrazol-5-yl)benzyloxy
236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252	CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O	O CH ₂ CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂	benzhydroxy benzhydroxy  p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl [3-methyl-6-(tetrazol-5-yl)phenoxy]methyl m-methyl-m-(tetrazol-5-yl)benzyloxy m-methyl-m-(tetrazol-5-yl)benzyloxy m-methyl-m-(tetrazol-5-yl)benzyloxy m-methyl-m-(tetrazol-5-yl)benzyloxy
236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252	CH ₂ O CH ₂ CH ₂ O CH ₂ O CH ₂ O CH ₂ CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂	O CH ₂ CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ CH ₂ O CH ₂ CH ₂ O CH ₂ CH ₂ O CH ₂ CH ₂ O CH ₂	benzhydroxy benzhydroxy  p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl m-methyl-m-(tetrazol-5-yl)benzyloxy m-methyl-m-(tetrazol-5-yl)benzyloxy m-methyl-m-(tetrazol-5-yl)benzyloxy m-methyl-m-(tetrazol-5-yl)benzyloxy m-methyl-m-(tetrazol-5-yl)benzyloxy 2-oxo-2-phenylethoxy
236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252	CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂	O CH ₂ CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂	benzhydroxy benzhydroxy  p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy [3-methyl-5-(tetrazol-5-yl)penzyloxy]methyl [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl m-methyl-m-(tetrazol-5-yl)benzyloxy m-methyl-m-(tetrazol-5-yl)benzyloxy m-methyl-m-(tetrazol-5-yl)benzyloxy m-methyl-m-(tetrazol-5-yl)benzyloxy 2-oxo-2-phenylethoxy 2-oxo-2-phenylethoxy
236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255	CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O	O CH ₂ CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂	benzhydroxy benzhydroxy  p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl m-methyl-m-(tetrazol-5-yl)benzyloxy m-methyl-m-(tetrazol-5-yl)benzyloxy m-methyl-m-(tetrazol-5-yl)benzyloxy 2-oxo-2-phenylethoxy 2-oxo-2-phenylethoxy
236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255	CH ₂ O CH ₂ CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂	O CH ₂ CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ CH ₂ O CH ₂ CH ₂ O CH ₂ CH ₂ O CH ₂ CH ₂ O CH ₂	benzhydroxy benzhydroxy  p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl m-methyl-m-(tetrazol-5-yl)benzyloxy m-methyl-m-(tetrazol-5-yl)benzyloxy m-methyl-m-(tetrazol-5-yl)benzyloxy 2-oxo-2-phenylethoxy 2-oxo-2-phenylethoxy carbo-t-butoxymethoxy
236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255	CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O	O CH ₂ CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂	benzhydroxy  p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl m-methyl-m-(tetrazol-5-yl)benzyloxy m-methyl-m-(tetrazol-5-yl)benzyloxy m-methyl-m-(tetrazol-5-yl)benzyloxy 2-oxo-2-phenylethoxy 2-oxo-2-phenylethoxy carbo-t-butoxymethoxy carbo-t-butoxymethoxy carbo-t-butoxymethoxy
236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258	CH ₂ O CH ₂ CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂	O CH ₂ CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂	benzhydroxy benzhydroxy  p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl m-methyl-m-(tetrazol-5-yl)benzyloxy m-methyl-m-(tetrazol-5-yl)benzyloxy m-methyl-m-(tetrazol-5-yl)benzyloxy 2-oxo-2-phenylethoxy 2-oxo-2-phenylethoxy carbo-t-butoxymethoxy carbo-t-butoxymethoxy
236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258	CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O	O CH ₂ CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ O CH ₂ CH ₂ O CH ₂ O CH ₂ CH ₂ O CH ₂ CH ₂ O CH ₂ CH ₂ O CH ₂ CH ₂ O CH ₂	benzhydroxy benzhydroxy  p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy p-(1,2,3-thiadiazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy o-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy m-(tetrazol-5-yl)benzyloxy [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl [3-methyl-5-(tetrazol-5-yl)phenoxy]methyl m-methyl-m-(tetrazol-5-yl)benzyloxy m-methyl-m-(tetrazol-5-yl)benzyloxy m-methyl-m-(tetrazol-5-yl)benzyloxy 2-oxo-2-phenylethoxy 2-oxo-2-phenylethoxy carbo-t-butoxymethoxy carbo-t-butoxymethoxy (benzimidazol-2-yl)methoxy (benzimidazol-2-yl)methoxy
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265	CH ₂	CH ₂	(1,4-dimethylimidazol-5-yl)methoxy
266	CH ₂	0	(1,4-dimethylimidazol-5-yl)methoxy
267	0	CH ₂	(1,4-dimethylimidazol-5-yl)methoxy
268	CH ₂	CH ₂	(thiazol-4-yl)methoxy
269	CH ₂	0	(thiazol-4-yl)methoxy
270	0	CH ₂	(thiazol-4-yl)methoxy
271	CH ₂	CH ₂	(quinolin-2-yl)methoxy
272	CH ₂	o"	(quinolin-2-yl)methoxy
273	0	CH ₂	(quinolin-2-yl)methoxy
274	— СН ₂ —	CH ₂	(1,3-benzodioxo-5-yl)methoxy
275	CH ₂	o o	(1,3-benzodioxo-5-yl)methoxy
276	0	CH ₂	(1,3-benzodioxo-5-yl)methoxy
277	CH ₂	CH ₂	(3,5-dimethylisoxazol-4-yl)methoxy
278	CH ₂	0	(3,5-dimethylisoxazol-4-yl)methoxy
279	0	CH ₂	(3,5-dimethylisoxazol-4-yl)methoxy
280	CH ₂	CH ₂	(3,5-dimethylpyrazol-1-yl)methoxy
281	CH ₂	0	(3,5-dimethylpyrazol-1-yl)methoxy
282	0	CH ₂	(3,5-dimethylpyrazol-1-yl)methoxy
283	CH ₂	CH ₂	(1,3,5-trimethylpyrazol-4-yl)methoxy
284	CH ₂	0	(1,3,5-trimethylpyrazol-4-yl)methoxy
285	0	CH ₂	(1,3,5-trimethylpyrazol-4-yl)methoxy

#### UTILITY

The compounds of formula I are expected to be metalloproteinase inhibitors. The MMP-3 inhibitory activity of the compounds of the present invention is demonstrated using assays of MMP-3 activity, for example, using the assay described below for assaying inhibitors of MMP-3 activity. The compounds of the present invention are expected to be bioavailable in vivo as demonstrated, for example, using the ex vivo assay described below. The compounds of formula I are expected to have the ability to suppress/inhibit cartilage degradation in vivo, for example, as demonstrated using the animal model of acute cartilage degradation described below.

The compounds provided by this invention should also be useful as standards and reagents in determining the ability of a potential pharmaceutical to inhibit MPs. These would be provided in commercial kits comprising a compound of this invention.

Metalloproteinases have also been implicated in the degradation of basement membrances to allow infiltration of cancer cells into the circulation and subsequent penetration into other tissues leading to tumor metastasis. (Stetler-Stevenson, Cancer and Metastasis Reviews, 9, 289-303, 1990.) The compounds of the present invention should be useful for the prevention and treatment of invasive tumors by inhibition of this aspect of metastasis.

The compounds of the present invention should also have utility for the prevention and treatment of osteopenia associated with matrixmetalloproteinase-mediated breakdown of cartilage and bone which occurs in osteoporosis patients.

Compounds which inhibit the production or action of TNF and/or Aggrecanase and/or MP's are potentially useful for the treatment or prophylaxis of various inflammatory, infectious, immunological or malignant diseases. These include, but are not limited to inflammation, fever, cardiovascular effects, hemorrhage, coagulation and acute phase response, an acute infection, septic shock, haemodynamic shock and sepsis syndrome, post ischaemic reperfusion injury, malaria, Crohn's disease, mycobacterial infection, meningitis, psoriasis,

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periodontits, gingivitis, congestive heart failure, fibrotic disease, cachexia, and aneroxia, graft rejection, cancer, corneal ulceration or tumor invasion by secondary metastases, autoimmune disease, skin inflammatory diseases, multiple osteo and rheumatoid arthritis, multiple sclerosis, radiation damage, HIV, and hyperoxic alveolar injury.

Some compounds of the present invention have been shown to inhibit TNF production in lipopolysacharride stimulated mice, for example, using the assay for TNF Induction in Mice and in human whole blood asdescribed below.

Some compounds of the present invention have been shown to inhibit aggrecanase a key enzyme in cartilage breakdown as determined by the aggrecanase assay described below.

As used herein "µg" denotes microgram, "mg" denotes milligram, "g" denotes gram, "µL" denotes microliter, "mL" denotes milliliter, "L" denotes liter, "nM" denotes nanomolar, "µM" denotes micromolar, "mM" denotes millimolar, "M" denotes molar and "nm" denotes nanometer. "Sigma" stands for the Sigma-Aldrich Corp. of St. Louis, MO.

A compound is considered to be active if it has an IC50 or  $K_{\dot{1}}$  value of less than about 1 mM for the inhibition of MMP-3.

# Aggrecanase Enzymatic Assay

A novel enzymatic assay was developed to detect potential inhibitors of aggrecanase. The assay uses active aggrecanase accumulated in media from stimulated bovine nasal cartilage (BNC) or related cartilage sources and purified cartilage aggrecan monomer or a fragment thereof as a substrate.

The substrate concentration, amount of aggrecanase time of incubation and amount of product loaded for Western analysis were optimized for use of this assay in screening putative aggrecanase inhibitors. Aggrecanase is generated by stimulation of cartilage slices with interleukin-1 (IL-1), tumor necrosis factor alpha (TNF0) or other stimuli. Matrix metalloproteinases (MMPs) are secreted from cartilage in an inactive, zymogen form following stimulation, although active enzymes are present within the matrix. We have shown that

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following depletion of the extracellular aggrecan matrix, active MMPs are released into the culture media. (Tortorella, M.D. et. al. Trans. Ortho. Res. Soc. 20, 341, 1995). Therefore, in order to accumulate BNC aggrecanase in culture media, cartilage is first depleted of endogenous aggrecan by 5 stimulation with 500 ng/ml human recombinant IL-ß for 6 days with media changes every 2 days. Cartilage is then stimulated for an additional 8 days without media change to allow accumulation of soluble, active aggrecanase in the culture In order to decrease the amounts of other matrix 10 metalloproteinases released into the media during aggrecanase accumulation, agents which inhibit MMP-1, -2, -3, and -9 biosynthesis are included during stimulation. This BNC conditioned media, containing aggrecanase activity is then 15 used as the source of aggrecanase for the assay. Aggrecanase enzymatic activity is detected by monitoring production of aggrecan fragments produced exclusively by cleavage at the Glu373-Ala374 bond within the aggrecan core protein by Western analysis using the monoclonal antibody, BC-3 (Hughes, 20 CE, et al., Biochem J 306:799-804, 1995). This antibody recognizes aggrecan fragments with the N-terminus, 374ARGSVIL, generated upon cleavage by aggrecanase. The BC-3 antibody recognizes this necepitope only when it is at the N-terminus and not when it is present internally within aggrecan 25 fragments or within the aggrecan protein core. Other proteases produced by cartilage in response to IL-1 do not cleave aggrecan at the Glu373-Ala374 aggrecanase site; therefore, only products produced upon cleavage by aggrecanase are detected. Kinetic studies using this assay yield a Km of 30 1.5 + - 0.35 uM for aggrecanase.

To evaluate inhibition of aggrecanase, compounds are prepared as 10 mM stocks in DMSO, water or other solvents and diluted to appropriate concentrations in water. Drug (50 ul) is added to 50 ul of aggrecanase-containing media and 50 ul of 2 mg/ml aggrecan substrate and brought to a final volume of 200 ul in 0.2 M Tris, pH 7.6, containing 0.4 M NaCl and 40 mM CaCl₂. The assay is run for 4 hr at 37°C, quenched with 20 mM EDTA and analyzed for aggrecanase-generated products. A

sample containing enzyme and substrate without drug is included as a positive control and enzyme incubated in the absence of substrate serves as a measure of background.

Removal of the glycosaminoglycan side chains from 5 aggrecan is necessary for the BC-3 antibody to recognize the ARGSVIL epitope on the core protein. Therefore, for analysis of aggrecan fragments generated by cleavage at the Glu373-Ala374 site, proteoglycans and proteoglycan fragments are enzymatically deglycosylated with chondroitinase ABC (0.1 10 units/10 ug GAG) for 2 hr at 37°C and then with keratanase (0.1 units/10 ug GAG) and keratanase II (0.002 units/10 ug GAG) for 2 hr at 37°C in buffer containing 50 mM sodium acetate, 0.1 M Tris/HCl, pH 6.5. After digestion, aggrecan in the samples is precipitated with 5 volumes of acetone and 15 resuspended in 30 ul of Tris glycine SDS sample buffer (Novex) containing 2.5% beta mercaptoethanol. Samples are loaded and then separated by SDS-PAGE under reducing conditions with 4-12% gradient gels, transferred to nitrocellulose and immunolocated with 1:500 dilution of antibody BC3. 20 Subsequently, membranes are incubated with a 1:5000 dilution of goat anti-mouse IgG alkaline phosphatase second antibody and aggrecan catabolites visualized by incubation with appropriate substrate for 10-30 minutes to achieve optimal color development. Blots are quantitated by scanning 25 densitometry and inhibition of aggrecanase determined by comparing the amount of product produced in the presence versus absence of compound.

# Bisacetylated Substance P / MMP-3 fluorescent Assay

A high capacity enzymatic assay was developed to detect potential inhibitors of MMP-3. The assay uses a derivative of a peptide substrate, substance P (Arg-Pro-Lys-Pro-Gln-Gln-Phe-Phe-Gly-Leu-Met), which is cleaved by MMP-3 exclusively at the glutamine-phenylalanine bond. In order to adapt this assay for high throughput screening, we have developed a fluorimetric method of product detection. The production of the hydrolysis product, substance P 7-11, is measured by reaction with fluorescamine, a fluorogenic compound which

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reacts with the primary amine of this fragment. The substance P substrate is bisacetylated to block the primary amines of the intact substrate. Thus, the resulting fluorescence represents generation of product (7-11 peptide) formed upon cleavage by MMP-3, and is quantitated using a standard curve prepared with known concentrations of 7-11 peptide. Kinetic studies using the bisacetylated substrate yield the following parameters for MMP-3: Km =769 +/- 52 uM; Vmax = 0.090 +/- 0.003 nmoles 7-11 peptide/min.

To evaluate inhibition of MMP-3, compounds were prepared at a concentration of 10 mM in 100% methanol, and then further diluted to a 20% molar stock. Five microliters of each drug stock was added to the assay in the presence of 20 nM truncated MMP-3 in 67.5 mM tricine (pH 7.5), 10 mM CaCl₂, 40 mM NaCl, and-0.005% Brij 35 in a final volume of 100 microliters. Bisacetylated substance P (1000 mM) was added, and the assay was run for 1 hour at 25°C. The reaction was quenched with EDTA (20 mM) and product was detected fluorometrically following addition of fluorescamine (0.075 mg/ml). Fluorescence of each sample was converted to an amount of product formed using a substance P 7-11 standard curve. Under these conditions, the assay is linear with respect to MMP-3 amount up to 10 pmoles. Inhibition of MMP-3 was determined by comparing the amount of product generated in the presence and absence of compound.

Selected compounds of the present invention were tested and shown to have activity in the above assay.

# Ex vivo assay for bioavailability of MMP-3 inhibitors

Blood was collected by cardiac puncture from rats at different times after dosing I.V., I.P., or P.O. with compound in order to determine the levels of inhibitor present. Plasma was extracted with 10% TCA in 95% methanol, and placed on ice for 10 minutes. The plasma was then centrifuged for 15 minutes at 14,000 rpm in an Eppendorf microcentrifuge. The supernatant was removed, recentrifuged, and the resulting supernatant was diluted 1:10 in 50 mM tricine, pH 8.5. The pH of the sample was adjusted to 7.5, and then assayed in the

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MMP-3 substance P fluorescent enzymatic assay. Plasma from naive rats was extracted by the same method and used as a negative control. This plasma was also used to prepare a spiked plasma curve of the compound of interest. Known concentrations of the compound were added to control plasma, the plasma was extracted by the same method, and then assayed in the MMP-3 enzymatic assay. A standard curve was prepared that related percent inhibition in the MMP-3 assay to the concentration of drug added in the spiked samples. Based on the percent inhibition in the presence of plasma from dosed rats, the concentration of compound was determined using the standard curve.

# Acute Cartilage Degradation Rat Model

15 A novel in vivo model of acute cartilage degradation in rats has been characterized as a method to determine the proteoglycan content in the synovial fluid after the induction of cartilage degradation. Experimental groups exhibit increased levels of proteoglycan content in their synovial 20 fluid versus control rats. The criteria to demonstrate a compound's activity in this model, is the ability to inhibit the demonstration of cartilage degradation, as measured by increased proteoglycan content in the synovial fluid of rats after compound administration. Indomethacin, a non-steroidal anti-inflammatory drug is inactive in this model. 25 Indomethacin administration does not inhibit the demonstration of cartilage degradation in experimental animals. contrast, administration of a compound of this invention significantly inhibited the demonstration of cartilage 30 degradation in this model.

# TNF Human Whole Blood Assay

Blood is drawn from normal donors into tubes containing 143 USP units of heparin/10ml. 225ul of blood is plated directly into sterile polypropylene tubes. Compounds are diluted in DMSO/serum free media and added to the blood samples so the final concentration of compounds are 50, 10, 5, 1, .5, .1, and .01  $\mu$ M. The final concentration of DMSO does

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not exceed .5%. Compounds are preincubated for 15 minutes before the addition of 100ng/ml LPS. Plates are incubated for 5 hours in an atmosphere of 5% CO₂ in air. At the end of 5 hours, 750ul of serum free media is added to each tube and the samples are spun at 1200RPM for 10 minutes. The supernatant is collected off the top and assayed for TNF-alpha production by a standard sandwich ELISA. The ability of compounds to inhibit TNF-alpha production by 50% compared to DMSO treated cultures is given by the IC50 value.

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#### TNF Induction In Mice

Test compounds are administered to mice either I.P. or P.O. at time zero. Immediately following compound administration, mice receive an I.P. injection of 20 mg of D-galactosamine plus 10  $\mu g$  of lipopolysaccharide. One hour later, animals are anesthetized and bled by cardiac puncture. Blood plasma is evaluated for TNF levels by an ELISA specific for mouse TNF. Administration of representative compounds of the present invention to mice results in a dose-dependent suppression of plasma TNF levels at one hour in the above assay.

#### Dosage and Formulation

The compounds of the present invention can be administered orally using any pharmaceutically acceptable dosage form known in the art for such administration. The active ingredient can be supplied in solid dosage forms such as dry powders, granules, tablets or capsules, or in liquid dosage forms, such as syrups or aqueous suspensions. The active ingredient can be administered alone, but is generally administered with a pharmaceutical carrier. A valuable treatise with respect to pharmaceutical dosage forms is Remington's Pharmaceutical Sciences, Mack Publishing.

The compounds of the present invention can be administered in such oral dosage forms as tablets, capsules (each of which includes sustained release or timed release formulations), pills, powders, granules, elixirs, tinctures, suspensions, syrups, and emulsions. Likewise, they may also

be administered in intravenous (bolus or infusion), intraperitoneal, subcutaneous, or intramuscular form, all using dosage forms well known to those of ordinary skill in the pharmaceutical arts. An effective but non-toxic amount of the compound desired can be employed as an antiinflammatory and antiarthritic agent.

The compounds of this invention can be administered by any means that produces contact of the active agent with the agent's site of action, MMP-3, in the body of a mammal. They can be administered by any conventional means available for use in conjunction with pharmaceuticals, either as individual therapeutic agents or in a combination of therapeutic agents. They can be administered alone, but generally administered with a pharmaceutical carrier selected on the basis of the chosen route of administration and standard pharmaceutical practice.

The dosage regimen for the compounds of the present invention will, of course, vary depending upon known factors, such as the pharmacodynamic characteristics of the particular agent and its mode and route of administration; the species, age, sex, health, medical condition, and weight of the recipient; the nature and extent of the symptoms; the kind of concurrent treatment; the frequency of treatment; the route of administration, the renal and hepatic function of the patient, and the effect desired. An ordinarily skilled physician or veterinarian can readily determine and prescribe the effective amount of the drug required to prevent, counter, or arrest the progress of the condition.

By way of general guidance, the daily oral dosage of each active ingredient, when used for the indicated effects, will range between about 0.001 to 1000 mg/kg of body weight, preferably between about 0.01 to 100 mg/kg of body weight per day, and most preferably between about 1.0 to 20 mg/kg/day. For a normal male adult human of approximately 70 kg of body weight, this translates into a dosage of 70 to 1400 mg/day. Intravenously, the most preferred doses will range from about 1 to about 10 mg/kg/minute during a constant rate infusion. Advantageously, compounds of the present invention may be

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administered in a single daily dose, or the total daily dosage may be administered in divided doses of two, three, or four times daily.

The compounds for the present invention can be administered in intranasal form via topical use of suitable intranasal vehicles, or via transdermal routes, using those forms of transdermal skin patches wall known to those of ordinary skill in that art. To be administered in the form of a transdermal delivery system, the dosage administration will, of course, be continuous rather than intermittant throughout the dosage regimen.

In the methods of the present invention, the compounds herein described in detail can form the active ingredient, and are typically administered in admixture with suitable pharmaceutical diluents, excipients, or carriers (collectively referred to herein as carrier materials) suitably selected with respect to the intended form of administration, that is, oral tablets, capsules, elixirs, syrups and the like, and consistent with conventional pharmaceutical practices.

For instance, for oral administration in the form of a tablet or capsule, the active drug component can be combined with an oral, non-toxic, pharmaceutically acceptable, inert carrier such as lactose, starch, sucrose, glucose, methyl callulose, magnesium stearate, dicalcium phosphate, calcium sulfate, mannitol, sorbitol and the like; for oral administration in liquid form, the oral drug components can be combined with any oral, non-toxic, pharmaceutically acceptable inert carrier such as ethanol, glycerol, water, and the like. Moreover, when desired or necessary, suitable binders,

lubricants, disintegrating agents, and coloring agents can also be incorporated into the mixture. Suitable binders include starch, gelatin, natural sugars such as glucose or beta-lactose, corn sweeteners, natural and synthetic gums such as acacia, tragacanth, or sodium alginate,

35 carboxymethylcellulose, polyethylene glycol, waxes, and the like. Lubricants used in these dosage forms include sodium oleate, sodium stearate, magnesium stearate, sodium benzoate, sodium acetate, sodium chloride, and the like. Disintegrators

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include, without limitation, starch, methyl cellulose, agar, bentonite, xanthan gum, and the like.

The compounds of the present invention can also be administered in the form of liposome delivery systems, such as small unilamellar vesicles, large unilamallar vesicles, and multilamellar vesicles. Liposomes can be formed from a variety of phospholipids, such as cholesterol, stearylamine, or phosphatidylcholines.

Compounds of the present invention may also be coupled 10 with soluble polymers as targetable drug carriers. polymers can include polyvinylpyrrolidone, pyran copolymer, polyhydroxypropylmethacrylamide-phenol, polyhydroxyethylaspartamidephenol, or polyethyleneoxidepolylysine substituted with palmitoyl residues. Furthermore, 15 the compounds of the present invention may be coupled to a class of biodegradable polymers useful in achieving controlled release of a drug, for example, polylactic acid, polyglycolic acid, copolymers of polylactic and polyglycolic acid, polyepsilon caprolactone, polyhydroxy butyric acid, 20 polyorthoesters, polyacetals, polydihydropyrans, polycyanoacylates, and crosslinked or amphipathic block copolymers of hydrogels.

Dosage forms (pharmaceutical compositions) suitable for administration may contain from about 1 milligram to about 100 milligrams of active ingredient per dosage unit. In these pharmaceutical compositions the active ingredient will ordinarily be present in an amount of about 0.5-95% by weight based on the total weight of the composition. The active ingredient can be administered orally in solid dosage forms, such as capsules, tablets, and powders, or in liquid dosage forms, such as elixirs, syrups, and suspensions. It can also be administered parenterally, in sterile liquid

Gelatin capsules may contain the active ingredient and powdered carriers, such as lactose, starch, cellulose derivatives, magnesium stearate, stearic acid, and the like. Similar diluents can be used to make compressed tablets. Both tablets and capsules can be manufactured as sustained release

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dosage forms.

products to provide for continuous release of medication over a period of hours. Compressed tablets can be sugar coated or film coated to mask any unpleasant taste and protect the tablet from the atmosphere, or enteric coated for selective disintegration in the gastrointestinal tract. 5 Liquid dosage forms for oral administration can contain coloring and flavoring to increase patient acceptance. In general, water, a suitable oil, saline, aqueous dextrose (glucose), and related sugar solutions and glycols such as 10 propylene glycol or polyethylene glycols are suitable carriers for parenteral solutions. Solutions for parenteral administration preferably contain a water soluble salt of the active ingredient, suitable stabilizing agents, and if necessary, buffer substances. Antioxidizing agents such as 15 sodium bisulfite, sodium sulfite, or ascorbic acid, either alone or combined, are suitable stabilizing agents. Also used are citric acid and its salts and sodium EDTA. In addition, parenteral solutions can contain preservatives, such as benzalkonium chloride, methyl- or propyl-paraben, and 20 chlorobutanol.

Suitable pharmaceutical carriers are described in Remington's Pharmaceutical Sciences, Mack Publishing Company, a standard reference text in this field.

Useful pharmaceutical dosage-forms for administration of the compounds of this invention can be illustrated as follows:

#### Capsules

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Capsules are prepared by conventional procedures so that the dosage unit is 500 milligrams of active ingredient, 100 milligrams of cellulose and 10 milligrams of magnesium stearate.

A large number of unit capsules may also prepared by filling standard two-piece hard gelatin capsules each with 100 milligrams of powdered active ingredient, 150 milligrams of lactose, 50 milligrams of cellulose, and 6 milligrams magnesium stearate.

#### Syrup

		<u>Wt. %</u>
	Active Ingredient	10
	Liquid Sugar	50
5	Sorbitol	20
	Glycerine	5
	Flavor, Colorant and	as required
	Preservative	
	Water	as_required—
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	_, _, _, _, _, _, _, _, _, _, _, _, _, _	

The final volume is brought up to 100% by the addition of distilled water.

#### Aqueous Suspension

		<u>₩t. %</u>
Active Ingredient		10
Sodium Saccharin		0.01
Keltrol® (Food Grade Xanthan	Gum)	0.2
Liquid Sugar		5
Flavor, Colorant and	as	required
Preservative		
Water	as	required
	Active Ingredient Sodium Saccharin Keltrol® (Food Grade Xanthan Liquid Sugar Flavor, Colorant and Preservative	Active Ingredient Sodium Saccharin Keltrol® (Food Grade Xanthan Gum) Liquid Sugar Flavor, Colorant and as Preservative

Xanthan gum is slowly added into distilled water
before adding the active ingredient and the rest of
the formulation ingredients. The final suspension
is passed through a homogenizer to assure the
elegance of the final products.

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# Resuspendable Powder

		WC. 6
	Active Ingredient	50.0
	Lactose	35.0
35	Sugar	10.0
	Acacia	4.7
	Sodium Carboxylmethylcellulose	0.3

Each ingredient is finely pulverized and then uniformly mixed together. Alternatively, the powder can be prepared as a suspension and then spray dried.

#### Semi-Solid Gel

	·	<u>WC. 8</u>
45	Active Ingredient	10
	Sodium Saccharin	0.02
	Gelatin	2
	Flavor, Colorant and	as required
•	Preservative	
50	Water	as required

Gelatin is prepared in hot water. The finely pulverized active ingredient is suspended in the gelatin solution and then the rest of the ingredients are mixed in. The suspension is filled

into a suitable packaging container and cooled down to form the gel.

# Semi-Solid Paste

5		<u> Wt. 용</u>
	Active Ingredient	10
	Gelcarin® (Carrageenin gum)	1
	Sodium Saccharin	0.01
	Gelatin	2
10	Flavor, Colorant and	as required
	Preservative	
	Water	as required

Gelcarin® is dissolved in hot water (around 80°C)
and then the fine-powder active ingredient is
suspended in this solution. Sodium saccharin and
the rest of the formulation ingredients are added to
the suspension while it is still warm. The
suspension is homogenized and then filled into
suitable containers.

# Emulsifiable Paste

		<u>Wt. 8</u>
	Active Ingredient	30
25	Tween® 80 and Span® 80	6
	$\texttt{Keltrol}^{\circledR}$	0.5
	Mineral Oil	63.5

All the ingredients are carefully mixed together to make a homogenous paste.

#### Soft Gelatin Capsules

A mixture of active ingredient in a digestable oil such as soybean oil, cottonseed oil or olive oil is prepared and injected by means of a positive displacement pump into gelatin to form soft gelatin capsules containing 100 milligrams of the active ingredient. The capsules are washed and dried.

#### Tablets

Tablets may be prepared by conventional procedures so that the dosage unit is 500 milligrams of active ingredient, 150 milligrams of lactose, 50 milligrams of cellulose and 10 milligrams of magnesium stearate.

A large number of tablets may also be prepared by conventional procedures so that the dosage unit was 100 milligrams of active ingredient, 0.2 milligrams of colloidal silicon dioxide, 5 milligrams of magnesium stearate, 275

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milligrams of microcrystalline cellulose, 11 milligrams of starch and 98.8 milligrams of lactose. Appropriate coatings may be applied to increase palatability or delay absorption.

# 5 Injectable

A parenteral composition suitable for administration by injection is prepared by stirring 1.5% by weight of active ingredient in 10% by volume propylene glycol and water. The solution is made isotonic with sodium chloride and sterilized.

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#### Suspension

An aqueous suspension is prepared for oral administration so that each 5 mL contain 100 mg of finely divided active ingredient, 200 mg of sodium carboxymethyl cellulose, 5 mg of sodium benzoate, 1.0 g of sorbitol solution, U.S.P., and 0.025 mL of vanillin.

The compounds of the present invention may be administered in combination with a second therapeutic agent, especially non-steroidal anti-inflammatory drugs (NSAID's). The compound of Formula I and such second therapeutic agent can be administered separately or as a physical combination in a single dosage unit, in any dosage form and by various routes of administration, as described above.

The compound of Formula I may be formulated together with the second therapeutic agent in a single dosage unit (that is, combined together in one capsule, tablet, powder, or liquid, etc.). When the compound of Formula I and the second therapeutic agent are not formulated together in a single dosage unit, the compound of Formula I and the second therapeutic agent may be administered essentially at the same time, or in any order; for example the compound of Formula I may be administered first, followed by administration of the second agent. When not administered at the same time, preferably the administration of the compound of Formula I and the second therapeutic agent occurs less than about one hour apart, more preferably less than about 5 to 30 minutes apart.

Preferably the route of administration of the compound of Formula I is oral. Although it is preferable that the

compound of Formula I and the second therapeutic agent are both administered by the same route (that is, for example, both orally), if desired, they may each be administered by different routes and in different dosage forms (that is, for example, one component of the combination product may be administered orally, and another component may be administered intravenously).

The dosage of the compound of Formula I when administered alone or in combination with a second therapeutic agent may vary depending upon various factors such as the 10 pharmacodynamic characteristics of the particular agent and its mode and route of administration, the age, health and weight of the recipient, the nature and extent of the symptoms, the kind of concurrent treatment, the frequency of treatment, and the effect desired, as described above. 15 Particularly when provided as a single dosage unit, the potential exists for a chemical interaction between the combined active ingredients. For this reason, when the compound of Formula I and a second therapeutic agent are combined in a single dosage unit they are formulated such that 20 although the active ingredients are combined in a single dosage unit, the physical contact between the active ingredients is minimized (that is, reduced). For example, one active ingredient may be enteric coated. By enteric coating one of the active ingredients, it is possible not only to 25 minimize the contact between the combined active ingredients, but also, it is possible to control the release of one of these components in the gastrointestinal tract such that one of these components is not released in the stomach but rather is released in the intestines. One of the active ingredients 30 may also be coated with a sustained-release material which effects a sustained-release throughout the gastrointestinal tract and also serves to minimize physical contact between the combined active ingredients. Furthermore, the sustainedreleased component can be additionally enteric coated such 35 that the release of this component occurs only in the intestine. Still another approach would involve the formulation of a combination product in which the one

component is coated with a sustained and/or enteric release polymer, and the other component is also coated with a polymer such as a lowviscosity grade of hydroxypropyl methylcellulose (HPMC) or other appropriate materials as known in the art, in order to further separate the active components. The polymer coating serves to form an additional barrier to interaction with the other component.

These as well as other ways of minimizing contact between the components of combination products of the present invention, whether administered in a single dosage form or administered in separate forms but at the same time by the same manner, will be readily apparent to those skilled in the art, once armed with the present disclosure.

The present invention also includes pharmaceutical kits 15 useful, for example, in the treatment or prevention of osteoarthritis or rheumatoid arthritis, which comprise one or more containers containing a pharmaceutical composition comprising a therapeutically effective amount of a compound of Formula I. Such kits may further include, if desired, one or more of various conventional pharmaceutical kit components, 20 such as, for example, containers with one or more pharmaceutically acceptable carriers, additional containers, etc., as will be readily apparent to those skilled in the art. Instructions, either as inserts or as labels, indicating 25 quantities of the components to be administered, guidelines for administration, and/or guidelines for mixing the components, may also be included in the kit.

In the present disclosure it should be understood that the specified materials and conditions are important in practicing the invention but that unspecified materials and conditions are not excluded so long as they do not prevent the benefits of the invention from being realized.

Although this invention has been described with respect to specific embodiments, the details of these embodiments are not to be construed as limitations. Various equivalents, changes and modifications may be made without departing from the spirit and scope of this invention, and it is understood that such equivalent embodiments are part of this invention.

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# WHAT IS CLAIMED AS NEW AND DESIRED TO BE SECURED BY LETTER PATENT OF UNITED STATES IS:

1. A compound of formula I:

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or a stereoisomer or pharmaceutically acceptable salt form thereof, wherein;

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- A is selected from  $COR^5$ ,  $-CO_2H$ ,  $CH_2CO_2H$ ,  $-CO_2R^6$ , -CONHOH,  $-CONHOR^5$ ,  $-CONHOR^6$ ,  $-NHR^a$ ,  $-N(OH)COR^5$ , -SH,  $-CH_2SH$ ,  $-SO_2NHR^a$ ,  $SN_2H_2R^a$ ,  $PO(OH)_2$ , and  $PO(OH)NHR^a$ ;
- 15 ring B is a 4-8 membered cyclic amide containing from 0-3 additional heteroatoms selected from O, NRa, and S(O)p, 0-1 additional carbonyl groups and 0-1 double bonds;

 $R^1$  is  $U-X-Y-Z-U^a-X^a-Y^a-Z^a$ ;

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- U is absent or is selected from: O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;
- 25 X is absent or selected from  $C_{1-10}$  alkylene,  $C_{2-10}$  alkenylene, and  $C_{2-10}$  alkynylene;
  - Y is absent or selected from O, NRa, S(O)p, and C(O);
- 30 Z is absent or selected from a  $C_{3-13}$  carbocyclic residue substituted with 0-5  $R^{\rm b}$  and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S and substituted with 0-5  $R^{\rm b}$ ;

U^a is absent or is selected from: O, NR^a, C(O), C(O)O, OC(O),  $C(O)NR^a, NR^aC(O), OC(O)O, OC(O)NR^a, NR^aC(O)O, NR^aC(O)NR^a, \\ S(O)_p, S(O)_pNR^a, NR^aS(O)_p, and NR^aSO_2NR^a;$ 

- 5  $X^a$  is absent or selected from  $C_{1-10}$  alkylene,  $C_{2-10}$  alkenylene,  $C_{2-10}$  alkynylene;
  - $Y^a$  is absent or selected from O,  $NR^a$ ,  $S(O)_p$ , and C(O);
- 10 Z^a is selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^c and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S and substituted with 0-5 R^c;
- 15  $R^2$  is selected from H, Q',  $C_{1-10}$  alkylene-Q',  $C_{2-10}$  alkenylene-Q',  $C_{2-10}$  alkynylene-Q',  $(CRR')_r$ ,  $O(CRR')_r$ -Q',  $(CRR')_r$ ,  $NR^a(CRR')_r$ -Q',  $(CRR')_r$ ,  $NR^a(CRR')_r$ -Q',  $(CRR')_r$ ,  $C(O)(CRR')_r$ -Q', and  $(CRR')_r$ ,  $C(O)(CRR')_r$ -Q';
- R, at each occurrence, is independently selected from H,  $CH_3$ ,  $CH_2CH_3$ ,  $CH=CH_2$ ,  $CH=CHCH_3$ , and  $CH_2CH=CH_2$ ;
  - R', at each occurrence, is independently selected from H, CH₃, CH₂CH₃, and CH(CH₃)₂;
- alternatively,  $R^1$  and  $R^2$  combine to form a  $C_{3-13}$  carbocyclic residue substituted with  $R^{1'}$  and 0-3  $R^{b}$  or a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S and substituted with  $R^{1'}$  and 0-3  $R^{b}$ ;
  - Q' is selected from H, a  $C_{3-13}$  carbocyclic residue substituted with 0-5  $R^{\rm b}$  and a 5-14 membered heterocyclic system

containing from 1-4 heteroatoms selected from the group consisting of N, O, and S and substituted with 0-5  $R^{\rm b}$ ;

R1' is Ua-Xa-Ya-Za;

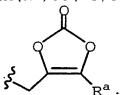
- $R^{3} \text{ is selected from H, Q, } C_{1-10} \text{ alkylene-Q, } C_{2-10} \text{ alkenylene-Q, } \\ C_{2-10} \text{ alkynylene-Q, } (CRR')_{r'}O(CRR')_{r}-Q, \\ (CRR')_{r'}NR^{a}(CRR')_{r}-Q, (CRR')_{r'}C(0)(CRR')_{r}-Q, \\ (CRR')_{r'}C(0)O(CRR')_{r}-Q, (CRR')_{r'}OC(0)(CRR')_{r}-Q, \\ (CRR')_{r'}C(0)NR^{a}(CRR')_{r}-Q, (CRR')_{r'}NR^{a}C(0)(CRR')_{r}-Q, \\ (CRR')_{r'}OC(0)O(CRR')_{r}-Q, (CRR')_{r'}OC(0)NR^{a}(CRR')_{r}-Q, \\ (CRR')_{r'}NR^{a}C(0)O(CRR')_{r}-Q, (CRR')_{r'}NR^{a}C(0)NR^{a}(CRR')_{r}-Q, \\ (CRR')_{r'}NR^{a}SO_{2}(CRR')_{r}-Q, (CRR')_{r'}NR^{a}SO_{2}NR^{a}(CRR')_{r}-Q, \\ (CRR')_{r'}NR^{a}C(0)(CRR')_{r'}NHQ, \\ (CRR')_{r'}NR^{a}C(0)(CRR')_{r'}NHC(0)OR^{a}, \text{ and } \\ (CRR')_{r'}NR^{a}C(0)(CRR')_{r}NHC(0)(CRR')_{r}NHC(0)OR^{a}, \end{aligned}$
- Q is selected from H, a  $C_{3-13}$  carbocyclic residue substituted 20 with 0-5  $R^b$  and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S and substituted with 0-5  $R^b$ ;
- R⁴ is selected from H,  $C_{1-10}$  alkylene-H,  $C_{2-10}$  alkenylene-H,  $C_{2-10}$  alkynylene-H,  $(CRR')_r$ ,  $O(CRR')_r$ -H,  $(CRR')_r$ ,  $O(CRR')_r$ -H,  $(CRR')_r$ ,  $O(CRR')_r$ -H,  $(CRR')_r$ ,  $O(CRR')_r$ -H,  $(CRR')_r$ ,  $O(CRR')_r$ -H,  $(CRR')_r$ ,  $O(CRR')_r$ -H,  $(CRR')_r$ ,  $O(CRR')_r$ -H,  $(CRR')_r$ ,  $O(CRR')_r$ -H,  $(CRR')_r$ ,  $O(CRR')_r$ -H,  $(CRR')_r$ ,  $O(CRR')_r$ -H,  $(CRR')_r$ ,  $O(CRR')_r$ -H,  $(CRR')_r$ ,  $O(CRR')_r$ -H,  $(CRR')_r$ ,  $O(CRR')_r$ -H,  $(CRR')_r$ ,  $O(CRR')_r$ -H,  $(CRR')_r$ ,  $O(CRR')_r$ -H,  $(CRR')_r$ ,  $O(CRR')_r$ -H,  $(CRR')_r$ ,  $O(CRR')_r$ -H,  $O(CRR')_r$ -H,  $O(CRR')_r$ -H, O(
- alternatively, R³ and R⁴ combine to form a C₃₋₁₃ carbocyclic residue substituted with R¹ and 0-3 R^b or a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S and substituted with R¹ and 0-3 R^b;

 $R^a$ , at each occurrence, is independently selected from H,  $C_{1-4}$  alkyl, phenyl and benzyl;

- 5  $R^{a'}$ , at each occurrence, is independently selected from H,  $C_{1-4}$  alkyl, phenyl and benzyl;
  - $R^{a''}$ , at each occurrence, is independently selected from H,  $C_{1-4}$  alkyl, benzyl,  $C_{3-7}$  carbocyclic residue, or a 5 to 6 membered heteroaromatic ring containing 1-4 heteroatoms selected from the group consisting of N, O, and S;
- alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- $R^b$ , at each occurrence, is independently selected from  $C_{1-6}$  alkyl,  $OR^a$ , Cl, F, Br, I, =0, CN,  $NO_2$ ,  $NR^aR^a$ ,  $C(O)R^a$ ,  $C(O)NR^aR^a$ ,  $S(O)_2NR^aR^a$ ,  $S(O)_pR^a$ ,  $CF_3$ , and  $CF_2CF_3$ ;
- R^c, at each occurrence, is independently selected from  $C_{1-6}$  alkyl,  $OR^a$ , Cl, F, Br, I, =0, CN,  $NO_2$ ,  $NR^aR^a$ ,  $C(0)R^a$ ,  $C(0)OR^a$ ,  $C(0)NR^aR^a$ ,  $NR^aC(0)NR^aR^a$ ,  $S(0)_2NR^aR^a$ ,  $S(0)_pR^a$ ,  $CF_3$ ,  $CF_2CF_3$ , -CH(=NOH),  $-C(=NOH)CH_3$ ,  $(CRR')_sO(CRR')_s$ ,  $R^d$ ,  $(CRR')_sS(0)_p(CRR')_s$ ,  $R^d$ ,  $(CRR')_sNR^a(CRR')_s$ ,  $R^d$ , phenyl, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;
- $R^5$ , at each occurrence, is selected from  $C_{1-10}$  alkyl substituted with 0-2  $R^b$ , and  $C_{1-8}$  alkyl substituted with 0-2  $R^d$ ;
- 35 R^d, at each occurrence, is independently selected from phenyl substituted with 0-3 R^b, biphenyl substituted with 0-2 R^b, naphthyl substituted with 0-3 R^b and a 5-10 membered heteroaryl system containing from 1-4 heteroatoms

selected from the group consisting of N, O, and S and substituted with  $0-3~R^b$ ;

- R⁶, at each occurrence, is selected from phenyl, naphthyl,  $C_{1-10} \text{ alkyl-phenyl-} C_{1-6} \text{ alkyl-}, C_{3-11} \text{ cycloalkyl}, C_{1-6} \\ \text{ alkylcarbonyloxy-} C_{1-3} \text{ alkyl-}, C_{1-6} \text{ alkoxycarbonyloxy-} C_{1-3} \\ \text{ alkyl-}, C_{2-10} \text{ alkoxycarbonyl}, C_{3-6} \text{ cycloalkylcarbonyloxy-} \\ C_{1-3} \text{ alkyl-}, C_{3-6} \text{ cycloalkoxycarbonyl}, \\ \text{ phenoxycarbonyl}, \\ \text{ phenoxycarbonyl},$
- phenyloxycarbonyloxy- $C_{1-3}$  alkyl-, phenylcarbonyloxy- $C_{1-3}$  alkyl-,  $C_{1-6}$  alkoxy- $C_{1-6}$  alkylcarbonyloxy- $C_{1-3}$  alkyl-, [5-  $(C_{1-5}$  alkyl)-1,3-dioxa-cyclopenten-2-one-yl]methyl, (5- aryl-1,3-dioxa-cyclopenten-2-one-yl)methyl, - $C_{1-10}$  alkyl-NR⁷R^{7a}, -CH(R⁸)OC(=O)R⁹, -CH(R⁸)OC(=O)OR⁹, and



- $\mbox{R}^{7}$  is selected from H and  $\mbox{C}_{1-10}$  alkyl,  $\mbox{C}_{2-6}$  alkenyl,  $\mbox{C}_{3-6}$  cycloalkyl-C $_{1-3}$  alkyl-, and phenyl-C $_{1-6}$  alkyl-;
- 20  $R^{7a}$  is selected from H and  $C_{1-10}$  alkyl,  $C_{2-6}$  alkenyl,  $C_{3-6}$  cycloalkyl- $C_{1-3}$  alkyl-, and phenyl- $C_{1-6}$  alkyl-;
  - $R^8$  is selected from H and  $C_{1-4}$  linear alkyl;
- 25  $R^9$  is selected from H,  $C_{1-8}$  alkyl substituted with 1-2  $R^e$ ,  $C_{3-8}$  cycloalkyl substituted with 1-2  $R^e$ , and phenyl substituted with 0-2  $R^b$ ;
- $R^e$ , at each occurrence, is selected from  $C_{1-4}$  alkyl,  $C_{3-8}$  30 cycloalkyl,  $C_{1-5}$  alkoxy, phenyl substituted with 0-2  $R^b$ ;
  - p, at each occurrence, is selected from 0, 1, and 2;
  - r, at each occurrence, is selected from 0, 1, 2, 3, 4, and 5;

r', at each occurrence, is selected from 0, 1, 2, 3, 4, and 5;

r", at each occurrence, is selected from 1, 2, and 3;

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s, at each occurrence, is selected from 0, 1, 2, and 3; and,

s', at each occurrence, is selected from 0, 1, 2, and 3.

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- 2. A compound according to Claim 1, wherein:
- A is selected from  $COR^5$ ,  $-CO_2H$ ,  $CH_2CO_2H$ , -CONHOH,  $-CONHOR^5$ ,  $-CONHOR^6$ ,  $-N(OH)COR^5$ , -SH, and  $-CH_2SH$ ;

- ring B is a 4-7 membered cyclic amide containing from 0-2 additional heteroatoms selected from 0,  $NR^a$ , and  $S(0)_p$ , and 0-1 additional carbonyl groups and 0-1 double bonds;
- 20 U is absent;
  - Y is absent;
- Z is absent or selected from a  $C_{5-10}$  carbocyclic residue substituted with 0-5  $R^b$  and a 5-10 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S and substituted with 0-5  $R^b$ ;
- 30 Ua is absent or is selected from: O, NRa, C(O), C(O)NRa, NRaC(O), OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)pNRa, and NRaS(O)p;
- R² is selected from H, Q',  $C_{1-5}$  alkylene-Q',  $C_{2-5}$ alkenylene-Q',  $C_{2-5}$  alkynylene-Q',  $(CRR')_r$ ,  $O(CRR')_r$ -Q',  $(CRR')_r$ ,  $NR^a(CRR')_r$ -Q',  $(CRR')_r$ ,  $NR^aC(O)(CRR')_r$ -Q',  $(CRR')_r$ ,  $C(O)NR^a(CRR')_r$ -Q',  $(CRR')_r$ ,  $C(O)NR^a(CRR')_r$ -Q',

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(CRR')_{r'}C(O)(CRR')_{r}-Q', (CRR')_{r'}C(O)O(CRR')_{r}-Q',

(CRR')_{r'}S(O)_{p}(CRR')_{r}-Q', and (CRR')_{r'}SO_{2}NR^{a}(CRR')_{r}-Q';
```

- Q' is selected from H, phenyl substituted with 0-3 R^b and a
  5-6 membered heteroaryl system containing from 1-4
  heteroatoms selected from the group consisting of N, O,
  and S and substituted with 0-3 R^b;
- R³ is selected from H, Q,  $C_{1-10}$  alkylene-Q,  $C_{2-10}$  alkenylene-Q,  $C_{2-10}$  alkynylene-Q,  $(CRR')_r$ ,  $O(CRR')_r$ -Q,  $(CRR')_r$ ,  $O(CRR')_r$ -Q,  $(CRR')_r$ ,  $O(CRR')_r$ -Q,  $(CRR')_r$ -Q, and  $(CRR')_r$ -NRaSO₂NRa(CRR')_r-Q;
  - R, at each occurrence, is independently selected from H,  $CH_3$ , and  $CH_2CH_3$ ;
- R', at each occurrence, is independently selected from H and CH3;
- Q is selected from H, a C₃₋₁₀ carbocyclic residue substituted with 0-5 R^b and a 5-10 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S and substituted with 0-5 R^b; and,
- 30 R^c, at each occurrence, is independently selected from C₁₋₆ alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aR^{a'}, C(0)R^a, C(0)OR^a, C(0)NR^aR^{a'}, S(0)₂NR^aR^{a'}, S(0)_pR^a, CF₃, CF₂CF₃, and a 5-10 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S.
  - 3. A compound according to Claim 2, wherein:

A is selected from  $-CO_2H$ ,  $CH_2CO_2H$ , -CONHOH,  $-CONHOR^5$ , and  $-N(OH)COR^5$ ;

- 5 ring B is a 4-6 membered cyclic amide containing from 0-2
  additional heteroatoms selected from 0, NRa, and S(O)p,
  and 0-1 additional carbonyl groups and 0-1 double bonds;
- Z is absent or selected from a C₅₋₆ carbocyclic residue

  substituted with 0-3 R^b and a 5-9 membered heterocyclic

  system containing from 1-4 heteroatoms selected from the

  group consisting of N, O, and S and substituted with 0-5

  R^b;
- 15  $U^a$  is absent or is selected from: O,  $NR^a$ , C(O), C(O) $NR^a$ ,  $NR^a$ C(O), and S(O) $_pNR^a$ ;
  - $X^a$  is absent or  $C_{1-10}$  alkylene;
- 20  $R^2$  is selected from H,  $C_{1-5}$  alkylene-Q',  $(CH_2)_r$ ,  $O(CH_2)_r$ -Q',  $(CH_2)_r$ ,  $NR^a(CH_2)_r$ -Q',  $(CRR')_r$ ,  $NR^aC(O)(CRR')_r$ -Q',  $(CH_2)_r$ ,  $O(O)(CR^a(CH_2)_r$ -Q',  $O(CRR')_r$ ,  $O(O)(CRR')_r$ ,  $O(O)(CRR')_r$ -Q', and  $O(CH_2)_r$ -Q';
- 25 R^c, at each occurrence, is independently selected from C₁₋₆ alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aR^{a'}, C(0)R^a, C(0)OR^a, C(0)NR^aR^{a'}, S(0)₂NR^aR^{a'}, S(0)_pR^a, CF₃, CF₂CF₃, and a 5-9 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S; and,
  - Q is selected from H, a  $C_{5-6}$  carbocyclic residue substituted with 0-5 R^b and a 5-6 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S and substituted with 0-5 R^b.
    - 4. A compound according to Claim 3, wherein:

A is selected from -CO₂H, CH₂CO₂H, -CONHOH, and -CONHOR⁵;

- ring B is a 4-5 membered cyclic amide containing from 0-2

  additional heteroatoms selected from 0, NRa, and S(0)p,

  and 0-1 additional carbonyl groups and 0-1 double bonds;
  - X is absent or selected from  $C_{1-4}$  alkylene,  $C_{2-4}$  alkenylene, and  $C_{2-4}$  alkynylene;
- Z is absent or selected from phenyl substituted with 0-3 R^b and a 5-9 membered aromatic heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S and substituted with 0-3 R^b;
- $X^a$  is absent or  $C_{1-4}$  alkylene;
  - Ya is absent or selected from O and NRa;
- Za is selected from H, a  $C_{5-10}$  carbocyclic residue substituted with 0-5 Rc and a 5-10 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S and substituted with 0-5 Rc;
- 25 R⁴ is selected from H,  $C_{1-4}$  alkylene-H,  $(CH_2)_r$ ,  $O(CH_2)_r$ -H, and  $(CH_2)_r$ ,  $NR^a$   $(CH_2)_r$ -H; and,
  - R^c, at each occurrence, is independently selected from C₁₋₆ alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aR^{a'}, C(0)R^a, C(0)OR^a, C(0)NR^aR^{a'}, S(0)₂NR^aR^{a'}, S(0)_pR^a, CF₃, CF₂CF₃, and a 5-6 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S.
    - 5. A compound according to Claim 1, wherein:

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[1(R)]-N-hydroxy-\alpha, 3-dimethyl-2-oxo-3-[4-
                   (phenylmethoxy)phenyl]-1-pyrrolidineacetamide;
         [1(R)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - (4 - methoxyphenyl) - 1 -
  5
                  pyrrolidineacetamide;
         [1(R)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - (1 - methylethoxy) phenyl] - 2 -
                  oxo-1-pyrrolidineacetamide;
10
         [1(R)]-3-[4-(1,1-dimethylethoxy)phenyl]-N-hydroxy-\alpha,3-
                  dimethyl-2-oxo-1-pyrrolidineacetamide;
       [1(R)]-3-(4-(cyclohexyloxy)phenyl]-N-hydroxy-\alpha,3-dimethyl-2-
                 oxo-1-pyrrolidineacetamide;
15
         [1(R)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [4 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1 - (1, 1, 1 - (1, 1, 1 - (1, 1, 1 - (1, 1, 1 - (1, 1, 1 - (1, 1, 1 - (1, 1, 1 - (1, 1, 1 - (1, 1, 1 - (1, 1, 1 - (1, 1, 1 - (1, 1, 1 - (1, 1, 1 - (1, 1, 1 - (1, 1, 1 - (1, 1, 1 - (1, 1, 1 - (1, 1, 1 - (1, 1, 1 - (1, 1, 1 - (1, 1, 1 - (1, 1, 1 - (1, 1, 1 - (1, 1, 1 - (1, 1, 1 - (1, 1, 1 - (1, 1, 1 - (1, 1, 1 - (1, 1, 1 - (1, 1, 1, 1 - (1, 1, 1, 1 - (1, 1, 1, 1 - (1, 1, 1, 1 - (1, 1, 1, 1)))]]
                 dimethylethyl)phenylmethoxy]phenyl]-1-
                 pyrrolidineacetamide;
20
         [1(R)]-N-hydroxy-\alpha, 3-dimethyl-2-oxo-3-[4-(trans-3-phenyl-2-
                 propenyloxy)phenyl]-1-pyrrolidineacetamide;
        [1(R)]-3-[4-[(3-methylphenyl)methoxy]phenyl]-N-hydroxy-\alpha, 3-
                 dimethyl-2-oxo-1-pyrrolidineacetamide;
25
        [1(R)]-3-[4-[(3,5-dimethylphenyl)methoxy]phenyl]-N-hydroxy-
                 \alpha, 3-dimethyl-2-oxo-1-pyrrolidineacetamide;
        [1(R)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - (2 - a)]
30
                 propenyloxy)phenyl]-1-pyrrolidineacetamide;
        [1(R)] - 3 - [4 - [(3 - cyanophenyl)methoxy]phenyl] - N - hydroxy - \alpha, 3 -
                 dimethyl-2-oxo-1-pyrrolidineacetamide;
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nitrophenyl)methoxy]phenyl]-2-oxo-1-pyrrolidineacetamide;

 $[1(R)] - N - hydroxy - \alpha - 3 - dimethyl - 3 - [4 - [(2 - 1)]]$ 

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[1(R)] - N - hydroxy - \alpha - 3 - dimethyl - 3 - [4 - [(3 - 4)]]
                                                                     nitrophenyl)methoxy]phenyl]-2-oxo-1-pyrrolidineacetamide;
                                    [1(R)]-N-hydroxy-\alpha, 3-dimethyl-3-[4-[(4-
                                                                     nitrophenyl)methoxy]phenyl]-2-oxo-1-pyrrolidineacetamide;
         5
                                    [1(R)]-N-hydroxy-\alpha, 3-dimethyl-3-[4-[(1-
                                                                     naphthalenyl)methoxy]phenyl]-2-oxo-1-
                                                                    pyrrolidineacetamide;
  10
                                   [1(R)]-N-hydroxy-3-(4-hydroxyphenyl)-\alpha,3-dimethyl-2-oxo-1-
                                                                    pyrrolidineacetamide;
                                   [1(R)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(2 - a)] - (2 - a)] - (2 - a)
 15
                                                                    pyridinyl)methoxy]phenyl]-1-pyrrolidineacetamide;
                                  [1(R)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(3 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 3 - (3 - 1)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - (3 - 1)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - (3 - 1)] - N - hydroxy - \alpha, 3 - dimethyl - \alpha, 3 -
                                                                   pyridinyl)methoxy]phenyl]-1-pyrrolidineacetamide;
20
                                  [1(R)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - \alpha, 3 - dimethyl - \alpha, 3 - dimethyl - \alpha, 3 - dimethyl - \alpha, 3 - dimethyl - \alpha, 3 - dime
                                                                   pyridinyl)methoxy]phenyl]-1-pyrrolidineacetamide;
                                  [1(R)]-N-hydroxy-\alpha, 3-dimethyl-3-[4-(2-methylpropyl)phenyl]-2-
                                                                   oxo-1-pyrrolidineacetamide;
25
                                  [1(R)]-N-hydroxy-\alpha, 3-dimethyl-2-oxo-3-phenyl-1-
                                                                  pyrrolidineacetamide;
                                N-hydroxy-2-oxo-3-phenyl-1-pyrrolidineacetamide;
30
                                  (+/-) -N-hydroxy-3-methyl-2-oxo-3-phenyl-1-
                                                                  pyrrolidineacetamide;
                                 [1(R)]-N-hydroxy-\alpha-methyl-2-oxo-3-phenyl-1-
35
                                                                  pyrrolidineacetamide;
                                  [1(R)]-N-hydroxy-3-(4-methoxyphenyl)-\alpha-methyl-2-oxo-1-
                                                                  pyrrolidineacetamide;
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[1(R)]-3-cyclohexyl-N-hydroxy-\alpha,3-dimethyl-2-oxo-1-pyrrolidineacetamide;
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- 5  $[1(R)]-N-hydroxy-\alpha,3-dimethyl-2-oxo-3-(2-phenylethyl)-1-pyrrolidineacetamide;$ 
  - [1(R)]-3-(2-cyclohexylethyl)-N-hydroxy- $\alpha$ , 3-dimethyl-2-oxo-1-pyrrolidineacetamide;
- [1(R)]-N-hydroxy- $\alpha$ -methyl-2-oxo-3-phenyl-3-(phenylmethyl)-2-oxo-1-pyrrolidineacetamide;
- [1(R)]-3,4,4',5'-tetrahydro-N-hydroxy-α-methyl-2oxospiro[naphthalene-2(1H),3'-[3H]pyrrole]-1'(2'H)acetamide;
  - [1(R)]-3-[4-[(3,5-dibromophenyl)methoxy]phenyl]-N-hydroxy- $\alpha$ ,3-dimethyl-2-oxo-1-pyrrolidineacetamide;
  - [1(R)]-3-[4-[[3,5-bis(trifluoromethyl)phenyl]methoxy]phenyl]N-hydroxy-α,3-dimethyl-2-oxo-1-pyrrolidineacetamide;
- [1(R)]-3-[4-[(3,5-dichlorophenyl)methoxy]phenyl]-N-hydroxy-25  $\alpha$ ,3-dimethyl-2-oxo-1-pyrrolidineacetamide;
  - [1(R)]-N-hydroxy-α,3-dimethyl-3-[4-[(2-methyl-1-naphthalenyl)methoxy]phenyl]-2-oxo-1-pyrrolidineacetamide;
- [1(R)]-3-[4-[(3,5-dimethoxyphenyl)methoxy]phenyl]-N-hydroxy- $\alpha$ ,3-dimethyl-2-oxo-1-pyrrolidineacetamide;
- [1(R)]-3-[4-[[4-chloro-2-(trifluoromethyl)-6quinolinyl]methoxy]phenyl]-N-hydroxy-α,3-dimethyl-2-oxo-1-pyrrolidineacetamide;

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[1(R)]-N-hydroxy-\alpha,3-dimethyl-2-oxo-3-[4-[[4-(1,2,3-thiadiazol-4-yl)phenyl]methoxy]phenyl]-1-pyrrolidineacetamide;
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- 5 [1(R)]-3-[4-([1,1'-biphenyl]-2-ylmethoxy)phenyl]-N-hydroxy- $\alpha$ , 3-dimethyl-2-oxo-1-pyrrolidineacetamide;
  - [1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N-hydroxy- $\alpha$ ,3-dimethyl-2-oxo-1-pyrrolidineacetamide;

[1(R)]-3-[4-(1H-benzotriazol-1-ylmethoxy)phenyl]-N-hydroxy- $\alpha$ , 3-dimethyl-2-oxo-1-pyrrolidineacetamide;

- [1(R)]-3-[4-[(4,6-dimethyl-2-pyrimidinyl)methoxy]phenyl]-Nhydroxy- $\alpha$ ,3-dimethyl-2-oxo-1-pyrrolidineacetamide;
  - [1(R)]-3-[4-(1,3-benzodioxol-5-ylmethoxy)phenyl]-N-hydroxy- $\alpha$ ,3-dimethyl-2-oxo-1-pyrrolidineacetamide;
- [1(R)]-3-[4-[(2-chloro-6-ethoxy-4-pyridinyl)methoxy]phenyl]-N-hydroxy- $\alpha$ ,3-dimethyl-2-oxo-1-pyrrolidineacetamide;
  - [1(R)]-N-hydroxy-α,3-dimethyl-2-oxo-3-[4-(4quinolinylmethoxy)phenyl]-1-pyrrolidineacetamide;

[1(R)]-3-[4-[(4,5-dimethyl-2-thiazolyl)methoxy]phenyl]-N-hydroxy- $\alpha$ ,3-dimethyl-2-oxo-1-pyrrolidineacetamide;

- [1(R)]-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N-30 hydroxy- $\alpha$ ,3-dimethyl-2-oxo-1-pyrrolidineacetamide;
  - [1(R)]-N-hydroxy-α,3-dimethyl-3-[4-[(3-methyl-5nitrophenyl)methoxy]phenyl]-2-oxo-1-pyrrolidineacetamide;
- 35  $[1(R)] 3 [4 [(3-amino-5-methylphenyl)methoxy]phenyl] N-hydroxy- <math>\alpha$ , 3-dimethyl-2-oxo-1-pyrrolidineacetamide;

10

 $[1(R)]-3-[4-[[3-(acetylamino)-5-methylphenyl]methoxy]phenyl]-N-hydroxy-\alpha, 3-dimethyl-2-oxo-1-pyrrolidineacetamide;$ 

- [1(R)]-1,1-dimethylethyl [2-[[3-[[4-[1-[2-(hydroxyamino)-1-5 methyl-2-oxoethyl]-3-methyl-2-oxo-3pyrrolidinyl]phenoxy]methyl]-5-methylphenyl]amino]-2oxoethyl]carbamate;
- [1(R)]-3-[4-[[3-[(aminoacetyl)amino]-5
  methylphenyl]methoxy]phenyl]-N-hydroxy-α,3-dimethyl-2oxo-1-pyrrolidineacetamide;
- [1(R)]-3-[4-[[3-[[(aminoacetyl)amino]acetyl]amino]-5methylphenyl]methoxy]phenyl]-N-hydroxy-α,3-dimethyl-220 oxo-1-pyrrolidineacetamide;
  - [1(R)]-N-[3-[[4-[1-[2-(hydroxyamino)-1-methyl-2-oxoethyl]-3methyl-2-oxo-3-pyrrolidinyl]phenoxy]methyl]-5methylphenyl]-4-morpholinecarboxamide;
  - 3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N-hydroxy- $\alpha,\alpha$ ,3-trimethyl-2-oxo-1-pyrrolidineacetamide;
- [1(R)]-3-[1,1'-biphenyl]-4-yl-N-hydroxy- $\alpha$ ,3-dimethyl-2-oxo-1-30 pyrrolidineacetamide;
  - [1(R)]-N-hydroxy- $\alpha$ , 3-dimethyl-3-(2'-methyl[1,1'-biphenyl]-4-yl)-2-oxo-1-pyrrolidineacetamide;
- 35  $[1(R)] N hydroxy \alpha$ , 3-dimethyl-3-(4'-methyl[1,1'-biphenyl]-4yl)-2-oxo-1-pyrrolidineacetamide;

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[1(R)-3-(3',4'-dimethoxy[1,1'-biphenyl]-4-yl)-N-hydroxy-\alpha,3-dimethyl-2-oxo-1-pyrrolidineacetamide;
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- [1(R)]-N-hydroxy-α,3-dimethyl-2-oxo-3-[2'
  (trifluoromethyl)[1,1'-biphenyl]-4-yl]-1pyrrolidineacetamide;
  - [1(R)]-N-hydroxy- $\alpha$ , 3-dimethyl-3-[4-(4-methylphenoxy)phenyl]-2-oxo-1-pyrrolidineacetamide;
- [1(R)]-N-hydroxy- $\alpha$ ,3-dimethyl-2-oxo-3-(4-phenoxyphenyl)-1-pyrrolidineacetamide;
- [1(R)]-N-hydroxy- $\alpha$ , 3-dimethyl-3-[4-(2-methylphenoxy)phenyl]-2-oxo-1-pyrrolidineacetamide;
  - [1(R)]-3-[4-(3,5-dichlorophenoxy)phenyl]-N-hydroxy- $\alpha$ ,3-dimethyl-2-oxo-1-pyrrolidineacetamide;
- 20 [1(R)]-3-[4-(3,4-dimethoxyphenoxy)phenyl]-N-hydroxy- $\alpha$ ,3-dimethyl-2-oxo-1-pyrrolidineacetamide;
  - [1(R)]-3-[4-(1,3-benzodioxol-5-yloxy)phenyl]-N-hydroxy- $\alpha$ ,3-dimethyl-2-oxo-1-pyrrolidineacetamide;
- [1(R)]-N-hydroxy- a, 3-dimethyl-3-[4-[3-(1methylethyl)phenoxy]phenyl]-2-oxo-1-pyrrolidineacetamide;
- [1(R)]-N-hydroxy-3-[4-(3-methoxyphenoxy)phenyl]- $\alpha$ ,3-dimethyl-30 2-oxo-1-pyrrolidineacetamide;
  - [1(R)]-N-hydroxy- $\alpha$ ,3-dimethyl-2-oxo-3-[4-(3-thienyloxy)phenyl]-1-pyrrolidineacetamide;
- 35 [1(R)]-N-hydroxy-α,3-dimethyl-2-oxo-3-[4-(3,4,5-trimethoxyphenoxy)phenyl]-1-pyrrolidineacetamide;

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[1(R)]-3-[4-[3,5-bis(trifluoromethyl)phenoxy]phenyl]-N-hydroxy-\alpha,3-dimethyl-2-oxo-1-pyrrolidineacetamide;
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- [1(R)]-N-hydroxy-α,3-dimethyl-3-[4-(1naphthalenyloxy)phenyl]-2-oxo-1-pyrrolidineacetamide;
  - [1(R)]-N-hydroxy-3-[4-[3[(hydroxyimino)methyl]phenoxy]phenyl]-α,3-dimethyl-2oxo-1-pyrrolidineacetamide;
- 15 [1(R)]-3-[4-([1,1'-biphenyl]-4-yloxy) phenyl]-N-hydroxy- $\alpha$ ,3-dimethyl-2-oxo-1-pyrrolidineacetamide;
  - [1(R)]-3-[4-(3,5-dibromophenoxy)phenyl]-N-hydroxy- $\alpha$ ,3-dimethyl-2-oxo-1-pyrrolidineacetamide;
  - [1(R)]-3-[4-[3-(acetylamino)phenoxy]phenyl]--hydroxy- $\alpha$ ,3-dimethyl-2-oxo-1-pyrrolidineacetamide;
- [1(R)]-N-hydroxy-α,3-dimethyl-3-[4-(4-nitrophenoxy)phenyl]-2-25 oxo-1-pyrrolidineacetamide;
  - [1(R)]-N-hydroxy- $\alpha$ ,3-dimethyl-3-(4-methylphenyl)-2-oxo-1-pyrrolidineacetamide;
- 30 [1(R)]-3-[4-[[(2,6-dimethyl-4-pyridinyl)oxy]methyl]phenyl]-N-hydroxy- $\alpha$ , 3-dimethyl-2-oxo-1-pyrrolidineacetamide;
  - [1(R)]-N-hydroxy-α,3-dimethyl-2-oxo-3-[4-[(4quinolinyloxy)methyl]phenyl]-1-pyrrolidineacetamide;
- [1(R)]-N-hydroxy-α,3-dimethyl-3-(4-nitrophenyl)-2-oxo-1-pyrrolidineacetamide;

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[1(R)]-N-hydroxy-\alpha, 3-dimethyl-2-oxo-3-[4-
                                              [(phenylcarbonyl)amino]phenyl]-1-pyrrolidineacetamide;
                       [1(R)]-N-hydroxy-\alpha, 3-dimethyl-2-oxo-3-[4-
     5
                                              [(phenylsulfonyl)amino]phenyl]-1-pyrrolidineacetamide;
                      [1(R)]-N-hydroxy-\alpha, 3-dimethyl-2-oxo-3-[4-
                                              [[(phenylamino)carbonyl]amino]phenyl]-1-
                                            pyrrolidineacetamide;
 10
                      [1(R)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - dimethyl - 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - [4 - [(1 - a)] - N - hydroxy - \alpha, 3 - [4 - [(
                                            naphthalenylmethyl)amino]phenyl]-2-oxo-1-
                                            pyrrolidineacetamide;
15
                      [1(R)] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - 2 - oxo - 3 - [4 - [(4 - 1)]] - N - hydroxy - \alpha, 3 - dimethyl - \alpha, 3 - dimethyl - \alpha, 3 - dimethyl - \alpha, 3 - dimethyl - \alpha, 3 - dimethyl - \alpha, 3 - dime
                                            quinolinylmethyl)amino]phenyl]-1-pyrrolidineacetamide;
                      [1(R)]-3-[4-[[(3,5-dimethoxyphenyl)methyl]amino]phenyl]-N-
                                            hydroxy-\alpha, 3-dimethyl-2-oxo-1-pyrrolidineacetamide;
20
                     3-[4-[(3,5-dimethylphenyl)methoxy]phenyl]-N-hydroxy-3-methyl-
                                            2-oxo-1-pyrrolidineacetamide;
                     3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N-hydroxy-3-
25
                                            methyl-2-oxo-1-pyrrolidineacetamide;
                     3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N-hydroxy-3-
                                           methyl-2-oxo-1-pyrrolidineacetamide;
30
                      [1(R)]-N-hydroxy-3-methyl-\alpha-(1-methylethyl)-2-oxo-3-[4-(4-
                                            quinolinylmethoxy)phenyl]-1-pyrrolidineacetamide;
                      [1(R)]-N-hydroxy-3-methyl-\alpha-(1-methylethyl)-2-oxo-3-[4-methylethyl)-2-oxo-3-[4-methylethyl]
                                             (phenylmethoxy)phenyl]-1-pyrrolidineacetamide;
35
                     [1(R)]-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N-
                                           hydroxy-3-methyl-\alpha-(1-methylethyl)-2-oxo-1-
                                           pyrrolidineacetamide;
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[1(R)]-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-Nhydroxy-3-methyl- $\alpha$ -(2-methylpropyl)-2-oxo-1pyrrolidineacetamide;

- [1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-Nhydroxy-3-methyl- $\alpha$ -(2-methylpropyl)-2-oxo-1pyrrolidineacetamide;
- 10 [1(R)] - 3 - [4 - [[3,5-bis(trifluoromethyl)phenyl]methoxy]phenyl] -N-hydroxy-3-methyl- $\alpha$ -(2-methylpropyl)-2-oxo-1pyrrolidineacetamide;
- [1(R)]-3-[4-[(3,5-dichlorophenyl)methoxy]phenyl]-N-hydroxy-3-15 methyl- $\alpha$ -(2-methylpropyl)-2-oxo-1-pyrrolidineacetamide;
  - $[1(R)]-N-hydroxy-3-methyl-\alpha-(2-methylpropyl)-2-oxo-3-[3-methylpropyl)-2-oxo-3-[3-methylpropyl)-2-oxo-3-[3-methylpropyl)-2-oxo-3-[3-methylpropyl)-2-oxo-3-[3-methylpropyl)-2-oxo-3-[3-methylpropyl)-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropyl]-2-oxo-3-[3-methylpropylpropylpropylpropylpropylpropylpropylpropylpropylpropylpropylpropylpropylpropylpropylpropylpropylpropylpropylpropylpropylpropylpropylpropylpropylpropylpropylpropylpropylpropylpr$ (phenylmethoxy)propyl]-1-pyrrolidineacetamide;
- 20 [1(R)]-N-hydroxy-3-methyl-3-[2-methyl-4-(phenylmethoxy)phenyl]- $\alpha$ -(2-methylpropyl)-2-oxo-1pvrrolidineacetamide;
- [1(R)]-3-[4-[(2,6-dichloro-4-pyridiny1)methoxy]-2-25 methylphenyl]-N-hydroxy-3-methyl- $\alpha$ -(2-methylpropyl)-2oxo-1-pyrrolidineacetamide;
- [1(R)] N hydroxy 3 methyl 3 [2 methyl 4 (2 methyl 3 methyl 3 methyl 4 (2 methyl 4 (2 methyl 3 methyl 3 methyl 3 methyl 3 methyl 4 (2 methyl 3 methyl 4 (2 methyl 3 methyl 3 methyl 3 methyl 4 (2 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methyl 3 methylnaphthalenylmethoxy) phenyl]- $\alpha$ -(2-methylpropyl)-2-oxo-1-30 pyrrolidineacetamide;
  - $[1(R)]-N-hydroxy-3-methyl-\alpha-(2-methylpropyl)-3-[2-methyl-4-(4-methylpropyl)]$ pyridinylmethoxy)phenyl]-2-oxo-1-pyrrolidineacetamide;
- 35 [1(R)] - 3 - [4 - [(2, 6 - dimethyl - 4 - pyridinyl) methoxy] - 2 methylphenyl]-N-hydroxy-3-methyl- $\alpha$ -(2-methylpropyl)-2oxo-1-pyrrolidineacetamide;

[1(R)]-N-hydroxy-3-methyl- $\alpha$ -[2-(methylthio)ethyl]-2-oxo-3-[4-(phenylmethoxy)phenyl]-1-pyrrolidineacetamide;

- [1(R)]-3-[4-(3,5-dibromophenoxy)phenyl]-3-methyl- $\alpha$ -[2-(methylsulfonyl)ethyl]-2-oxo-1-pyrrolidineacetic acid;
  - [1(R)]-3-[4-[3,5-bis(trifluoromethyl)phenoxy]phenyl]-N-hydroxy-3-methyl- $\alpha$ -[2-(methylsulfonyl)ethyl]-2-oxo-1-pyrrolidineacetamide;
- [1(R)]-3-[4-(3,5-dibromophenoxy)phenyl]-N-hydroxy-3-methyl- $\alpha$ -[2-(methylsulfonyl)ethyl]-2-oxo-1-pyrrolidineacetamide;
- [1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-Nhydroxy-3-methyl- $\alpha$ -[2-(methylsulfonyl)ethyl]-2-oxo-1pyrrolidineacetamide;
  - [1(R)]-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N-hydroxy-3-methyl- $\alpha$ -[2-(methylsulfonyl)ethyl]-2-oxo-1-pyrrolidineacetamide;
    - [1(R)]-N-hydroxy-3-methyl- $\alpha$ -[2-(methylsulfonyl)ethyl]-2-oxo-3-[4-(4-quinolinylmethoxy)phenyl]-1-pyrrolidineacetamide;
- 25 N-hydroxy-1-[3-methyl-2-oxo-3-[4-(phenylmethoxy)phenyl]-1pyrrolidinyl]cyclopropanecarboxamide;
  - [1(R)]-N-hydroxy-α-[(4-hydroxyphenyl)methyl]-3-methyl-2-oxo-3-[4-(phenylmethoxy)phenyl]-1-pyrrolidineacetamide;
  - [1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-Nhydroxy-α-(2-hydroxyethyl)-3-methyl-2-oxo-1pyrrolidineacetamide;
- 35 [1(R)]-1,1-dimethylethyl [5-[3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-3-methyl-2-oxo-1-pyrrolidinyl]-6-(hydroxyamino)-6-oxohexyl]carbamate;

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[1(R)]- $\alpha$ -(4-aminobutyl)-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N-hydroxy-3-methyl-2-oxo-1-pyrrolidineacetamide;

- 5 [1(R)]-α-[4-(acetylamino)butyl]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N-hydroxy-3-methyl-2-oxo-1-pyrrolidineacetamide;
- [1(R)]-N-[5-[3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]3-methyl-2-oxo-1-pyrrolidinyl]-6-(hydroxyamino)-6oxohexyl]-3-pyridineacetamide;
- [1(R)]-N-[5-[3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-3-methyl-2-oxo-1-pyrrolidinyl]-6-(hydroxyamino)-6-oxohexyl]-4-morpholinecarboxamide;
  - [1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-Nhydroxy-3-methyl- $\alpha$ -[4-[(methylsulfonyl)amino]butyl]-2oxo-1-pyrrolidineacetamide;
- 20
  [1(R)]-α-[4-(acetylamino)butyl]-3-[4-[(2,6-dimethyl-4pyridinyl)methoxy]phenyl]-N-hydroxy-3-methyl-2-oxo-1pyrrolidineacetamide;
- 25 [1(R)]-1,1-dimethylethyl [5-[3-[4-[(2,6-dimethyl-4pyridinyl)methoxy]phenyl]-3-methyl-2-oxo-1-pyrrolidinyl]6-(hydroxyamino)-6-oxohexyl]carbamate;
- [1(R)]-α-(4-aminobutyl)-3-[4-[(2,6-dimethyl-4pyridinyl)methoxy]phenyl]-N-hydroxy-3-methyl-2-oxo-1pyrrolidineacetamide;
- [1(R)]- $\alpha$ -[4-[(aminoacetyl)amino]butyl]-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N-hydroxy-3-methyl-2-oxo-1-pyrrolidineacetamide;

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 [1(R)] - \alpha - [4 - (acetylamino)butyl] - 3 - [4 - [[3, 5 - bis(trifluoromethyl)phenyl]methoxy]phenyl] - N-hydroxy-3-methyl-2-oxo-1-pyrrolidineacetamide;
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- 5 [1(R)]-1,1-dimethylethyl [5-[3-[4-(3,5-dibromophenoxy)phenyl]-3-methyl-2-oxo-1-pyrrolidinyl]-6-(hydroxyamino)-6-oxohexyl]carbamate;
- [1(R)]- $\alpha$ -(4-aminobutyl)-3-[4-(3,5-dibromophenoxy)phenyl]-N-10 hydroxy-3-methyl-2-oxo-1-pyrrolidineacetamide;
  - [1(R)]-1,1-dimethylethyl [3-[3-[4-[(2,6-dichloro-4pyridinyl)methoxy]phenyl]-3-methyl-2-oxo-1-pyrrolidinyl]4-(hydroxyamino)-4-oxobutyl]carbamate;
- [1(R)]- $\alpha$ -[2-(acetylamino)ethyl]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N-hydroxy-3-methyl-2-oxo-1-pyrrolidineacetamide;
- [1(R)]-1,1-dimethylethyl [3-[3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-3-methyl-2-oxo-1-pyrrolidinyl]-4-(hydroxyamino)-4-oxobutyl]carbamate;
- [1(R)]- $\alpha$ -(2-aminoethyl)-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N-hydroxy-3-methyl-2-oxo-1-pyrrolidineacetamide;
  - N-[3-[3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-3methyl-2-oxo-1-pyrrolidinyl]-4-(hydroxyamino)-4oxobutyl]-3-pyridinecarboxamide;
  - [1(R)]-N-[3-[3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]3-methyl-2-oxo-1-pyrrolidinyl]-4-(hydroxyamino)-4oxobutyl]-4-morpholinecarboxamide;

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[1(R)]-1,1-dimethylethyl [2-[3-[3-[4-[(2,6-dimethyl-4-
                         pyridinyl)methoxy]phenyl]-3-methyl-2-oxo-1-pyrrolidinyl]-
                         4-(hydroxyamino)-4-oxobutyl]amino]-2-oxoethyl]carbamate;
   5
            [1(R)] - \alpha - [2 - (aminoacetyl) amino] ethyl] - 3 - [4 - (2, 6 - dimethyl) - 4 - (2, 6 - dimethyl)] - 4 - (3, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - 4 - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimethyl)] - (4, 6 - dimet
                        pyridinyl)methoxy]phenyl]-N-hydroxy-3-methyl-2-oxo-1-
                        pyrrolidineacetamide;
 10
            [1(R)]-1,1-dimethylethyl [2-[[2-[[3-[3-[4-[(2,6-dimethyl-4-
                        pyridinyl)methoxy]phenyl]-3-methyl-2-oxo-1-pyrrolidinyl]-
                         4-(hydroxyamino)-4-oxobutyl]amino]-2-oxoethyl]amino]-2-
                         oxoethyl]carbamate;
15
            [(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N-hydroxy-3-
                        methyl-2-oxo-1-pyrrolidineacetamide;
            [1(R)]-N-hydroxy-3-methyl-2-oxo-\alpha-[(phenylmethoxy)methyl]-3-
20
                         [4-(phenylmethoxy)phenyl]-1-pyrrolidineacetamide;
            [1(R)]-3-[4-[(2,6-dichloro-4-pyridiny])methoxy]phenyl]-N-
                        hydroxy-\alpha-(hydroxymethyl)-3-methyl-2-oxo-1-
                        pyrrolidineacetamide;
25
            [1(R)]-1,1-dimethylethyl 4-[2-(hydroxyamino)-1-[3-methyl-2-
                        oxo-3-[4-(4-quinolinylmethoxy)phenyl]-1-pyrrolidinyl]-2-
                        oxoethyl]-1-piperidinecarboxylate;
30
            quinolinylmethoxy)phenyl]-1-pyrrolidinyl]-4-
                       piperidineacetamide;
           35
                       quinolinylmethoxy)phenyl]-1-pyrrolidinyl]-1-
                        (methylsulfonyl) -4-piperidineacetamide;
```

- 5 [1(R)]-1,1-dimethylethyl 4-[1-[3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-3-methyl-2-oxo-1-pyrrolidinyl]-2-(hydroxyamino)-2-oxoethyl]-1-piperidinecarboxylate;
- [1(R)]-α-[3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-3
  methyl-2-oxo-1-pyrrolidinyl]-N-hydroxy-4piperidineacetamide;
- - [1(R)]- $\alpha$ -[3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-3methyl-2-oxo-1-pyrrolidinyl]-N-hydroxy-1-(methylsulfonyl)-4-piperidineacetamide;
- 25  $[1(R)]-1-(2,2-dimethyl-1-oxopropyl)-\alpha-[3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-3-methyl-2-oxo-1-pyrrolidinyl]-N-hydroxy-4-piperidineacetamide;$
- [1(R)]-α-[3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-330 methyl-2-oxo-1-pyrrolidinyl]-N-hydroxy-1-methyl-4piperidineacetamide;
- [1(R)]-α-[3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-3methyl-2-oxo-1-pyrrolidinyl]-N-hydroxy-1-(1-methylethyl)35 4-piperidineacetamide;
  - [1(R)]-3-amino-N-hydroxy-alpha-(2-methylpropyl)-2-oxo-3-[4-(2quinolinylmethoxy)phenyl]-1-pyrrolidineacetamide;

[1(R)]-3-amino-3-[4-[(3,5-dimethylphenyl)methoxy]phenyl]-N-

```
hydroxy-alpha-methyl-2-oxo-1-pyrrolidineacetamide;
 5
     [1(R)]-3-[4-[(3,5-dimethylphenyl)methoxy]phenyl]-3-
          [[(ethylamino]carbonyl]amino]-N-hydroxy-alpha-methyl-2-
          oxo-1-pyrrolidineacetamide;
     [1(R)]-3-[4-[(3,5-dimethylphenyl)methoxy]phenyl]-N-hydroxy-
10
          alpha-methyl-3-[(methylsulfonyl)amino]-2-oxo-1-
          pyrrolidineacetamide;
      [1(R)]-N-[3-[4-[(3,5-dimethylphenyl)methoxy]phenyl]-1-[2-
           (hydroxyamino) -1-methyl-2-oxoethyl] -2-oxo-3-
15
          pyrrolidinyl]-3-pyridineacetamide;
      [1(R)]-N-[3-[4-[(3,5-dimethylphenyl)methoxy]phenyl]-1-[2-
          (hydroxyamino) -1-methyl-2-oxoethyl] -2-oxo-3-
          pyrrolidinyl]-4-pyridinecarboxamide;
20
     [1(R)]-3-amino-3-[4-[(2,6-dichloro-4-pyridiny])methoxy]
          phenyl]-N-hydroxy-alpha-methyl-2-oxo-1-
          pyrrolidineacetamide;
25
     1(R)]-N-[3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-1-[2-
          (hydroxyamino) -1-methyl-2-oxoethyl]-2-oxo-3-
          pyrrolidinyl]-4-pyridinecarboxamide;
     [1(R)]-3-[4-[(2,6-dichloro-4-pyridiny1)methoxy]pheny1]-3-
30
          [[(ethylamino)carbonyl]amino]-N-hydroxy-alpha-methyl-2-
          oxo-1-pyrrolidineacetamide;
     [1(R)]-1,1-dimethylethyl [2-[[3-[4-[(2,6-dichloro-4-
          pyridinyl)methoxy]phenyl]-1-[2-(hydroxyamino)-1-methyl-2-
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oxoethyl]-2-oxo-3-pyrrolidinyl]amino]-2-

oxoethyl]carbamate;

- 5 [1(R)]-N-[3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-1[2-(hydroxyamino)-1-methyl-2-oxoethyl]-2-oxo-3pyrrolidinyl]-3-pyridineacetamide;
- [1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-3[[[(2,4-dimethoxyphenyl)amino]carbonyl]amino]-N-hydroxyalpha-methyl-2-oxo-1-pyrrolidineacetamide;
  - [1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-Nhydroxy-alpha-methyl-2-oxo-3[[(phenylamino)carbonyl]amino]-1-pyrrolidineacetamide;
  - [1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-Nhydroxy-alpha-methyl-3-[[[[2-(4morpholinyl)ethyl]amino]carbonyl]amino]-2-oxo-1pyrrolidineacetamide;
- 35 [1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N-hydroxy-alpha-methyl-2-oxo-3-[[(2-thiazolylamino)carbonyl]amino]-1-pyrrolidineacetamide;

20

25

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[1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N-
hydroxy-alpha-methyl-2-oxo-3-[[(4-
pyridinylamino)carbonyl]amino]-1-pyrrolidineacetamide;
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- 5 [1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-Nhydroxy-3-[[[(3-hydroxyphenyl)amino]carbonyl]amino]alpha-methyl-2-oxo-1-pyrrolidineacetamide;
- [1(R)]-3-amino-3-[4-[(2,6-dichloro-4pyridinyl)methoxy]phenyl]-N-hydroxy-alpha-[2(methylsulfonyl)ethyl]-2-oxo-1-pyrrolidineacetamide;
- - [1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-Nhydroxy-alpha-[2-(methylsulfonyl)ethyl]-2-oxo-3-[[(2thiazolylamino)carbonyl]amino]-1-pyrrolidineacetamide;
  - [1(R)]-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N-hydroxy-alpha-[2-(methylsulfonyl)ethyl]-2-oxo-3-[[(2-thiazolylamino)carbonyl]amino]-1-pyrrolidineacetamide;
- 30 [5(R)]-2-propenyl [5-[3-amino-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-2-oxo-1-pyrrolidinyl]-6-(hydroxyamino)-6-oxohexyl]carbamate;
- [5(R)]-2-propenyl [5-[3-amino-3-[4-[(2,6-dimethyl-4pyridinyl)methoxy]phenyl]-2-oxo-1-pyrrolidinyl]-6-(hydroxyamino)-6-oxohexyl]carbamate;

- 5 [1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-Nhydroxy-alpha-(2-methylpropyl)-2-oxo-3-[[(2thiazolylamino)carbonyl]amino]-1-pyrrolidineacetamide;
- [1(R)]-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N
  hydroxy-alpha-(2-methylpropyl)-2-oxo-3-[[(2-thiazolylamino)carbonyl]amino]-1-pyrrolidineacetamide;
- [1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-Nhydroxy-alpha-(2-methylpropyl)-2-oxo-3-[[(2pyridinylamino)carbonyl]amino]-1-pyrrolidineacetamide;
  - [1(R)]-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-Nhydroxy-alpha-(2-methylpropyl)-2-oxo-3[(trifluoroacetyl)amino]-1-pyrrolidineacetamide;
  - [1(R)]-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-Nhydroxy-alpha-(2-methylpropyl)-2-oxo-3-[[(2pyridinylamino)carbonyl]amino]-1-pyrrolidineacetamide;
- 25 [1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-Nhydroxy-alpha-(2-methylpropyl)-2-oxo-3[[[(phenylsulfonyl)amino]carbonyl]amino]-1pyrrolidineacetamide;
- 30 [1(R)]-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-Nhydroxy-alpha-(2-methylpropyl)-2-oxo-3[[((phenylsulfonyl)amino]carbonyl]amino]-1pyrrolidineacetamide;
- 35 [1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-Nhydroxy-3-[[[(3-methyl-5isothiazolyl)amino]carbonyl]amino]-alpha-(2methylpropyl)-2-oxo-1-pyrrolidineacetamide;

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[1(R)]-3-[[(1H-benzimidazol-2-ylamino)carbonyl]amino]-3-[4-
                          [(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N-hydroxy-
                         alpha-(2-methylpropyl)-2-oxo-1-pyrrolidineacetamide;
   5
            [1(R)]-3-[[(1H-benzimidazol-2-ylamino)carbonyl]amino]-3-[4-
                         [(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N-hydroxy-
                         alpha-(2-methylpropyl)-2-oxo-1-pyrrolidineacetamide;
 10
            [1(R)]-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N-
                        hydroxy-alpha-(2-methylpropyl)-2-oxo-3-
                         [[(phenylamino)carbonyl]amino]-1-pyrrolidineacetamide;
            [1(R)]-3-[4-[(2,6-dichloro-4-pyridiny])methoxy]phenyl]-N-
15
                        hydroxy-alpha-(2-methylpropyl)-2-oxo-3-
                         [[(phenylamino)carbonyl]amino]-1-pyrrolidineacetamide;
            [1(R)]-1-[1-[(hydroxyamino)carbonyl]-3-methylbutyl]-N,N,N-
                        trimethyl-2-oxo-3-[4-(phenylmethoxy)phenyl]-1-
20
                        pyrrolidinemethanaminium;
            [1(R)]-3-amino-N-hydroxy-alpha-(2-methylpropyl)-2-oxo-3-[4-(4-
                       quinolinylmethoxy) phenyl]-1-pyrrolidineacetamide;
25
            [1(R)]-3-amino-N-hydroxy-alpha-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-oxo-3-[4-(2-methylpropyl)-2-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[4-(2-methylpropyl)-2-[
                        oxo-2-phenylethoxy)phenyl]-1-pyrrolidineacetamide;
            [1(R)]-3-amino-3-[4-[(3,5-dimethyl-4-
                        isoxazolyl)methoxy]phenyl]-N-hydroxy-alpha-(2-
30
                        methylpropyl)-2-oxo-1-pyrrolidineacetamide;
           [1(R)]-3-amino-3-[4-[(2,6-dimethyl-4-
                       pyridinyl)methoxy]phenyl]-N-hydroxy-alpha-(2-
                       methylpropyl)-2-oxo-1-pyrrolidineacetamide;
35
           [1(R)]-3-amino-3-[4-[2-(2-benzothiazolylamino)-2-
                       oxoethoxy]phenyl]-N-hydroxy-alpha-(2-methylpropyl)-2-oxo-
                       1-pyrrolidineacetamide;
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[1(R)] - 3 - amino - N - hydroxy - 3 - [4 - [(2 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 - [(3 - methoxy - 4 quinoliny1)methoxy]phenyl]-alpha-(2-methylpropy1)-2-oxo-1-pyrrolidineacetamide;

5

[1(R)]-3-amino-N-hydroxy-alpha-(2-methylpropyl)-2-oxo-3-[4-[(2-phenyl-4-quinolinyl)methoxy]phenyl]-1pyrrolidineacetamide;

10

[1(R)]-3-amino-3-[4-[(2,6-dimethyl-4quinolinyl)methoxy]phenyl]-N-hydroxy-alpha-(2methylpropyl)-2-oxo-1-pyrrolidineacetamide;

15

[1(R)]-3-amino-3-[4-[(2-chloro-4-quinolinyl)methoxy]phenyl]-Nhydroxy-alpha-(2-methylpropyl)-2-oxo-1pyrrolidineacetamide;

20

[1(R)]-3-amino-3-[4-[2-(2,5-dimethoxyphenyl)-2-(hydroxyimino) ethoxy]phenyl]-N-hydroxy-alpha-(2methylpropyl)-2-oxo-1-pyrrolidineacetamide;

[1(R)]-3-amino-N-hydroxy-3-[4-[(2-methylimidazo[1,2-a]pyridin-3-y1)methoxy]pheny1]-alpha-(2-methylpropy1)-2-oxo-1pyrrolidineacetamide;

25

[1(R)]-3-amino-3-[4-[[1,4-dimethyl-2-(methylthio)-1H-imidazol-5-y1]methoxy]phenyl]-N-hydroxy-alpha-(2-methylpropyl)-2oxo-1-pyrrolidineacetamide;

30 [1(R)]-3-amino-3-[4-[[1,5-dimethyl-2-(methylthio)-1H-imidazol-4-y1]methoxy]pheny1]-N-hydroxy-alpha-(2-methylpropy1)-2oxo-1-pyrrolidineacetamide;

35

[1(R)]-3-amino-3-[4-[(2,4-dimethyl-5thiazolyl)methoxy]phenyl]-alpha-(2-methylpropyl)-2-oxo-1pyrrolidineacetamide;

- [1(R)]-3-amino-N-hydroxy-alpha-(2-methylpropyl)-3-[4-[(2methyl-4-quinolinyl)methoxy]phenyl]-2-oxo-1pyrrolidineacetamide;
- 5 [1(R)]-3-amino-3-[4-[(2-chloro-4-quinolinyl)methoxy]phenyl]-N-hydroxy-alpha-[2-(methylsulfonyl)ethyl]-2-oxo-1-pyrrolidineacetamide;
- [1(R)]-3-amino-3-[4-[(3,5-dimethoxyphenyl)methoxy]phenyl]-N-hydroxy-alpha-[2-(methylsulfonyl)ethyl]-2-oxo-1-pyrrolidineacetamide;
  - [1(R)]-3-amino-N-hydroxy-3-[4-[(2-methoxy-4quinolinyl)methoxy]phenyl]-alpha-[2(methylsulfonyl)ethyl]-2-oxo-1-pyrrolidineacetamide;
  - [1(R)]-3-amino-3-[4-[(3,5-dimethoxyphenyl)methoxy]phenyl]-Nhydroxy-alpha-(2-methylpropyl)-2-oxo-1pyrrolidineacetamide;
- 25 [1(R)]-3-(aminomethyl)-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N-hydroxy-alpha-(2-methylpropyl)-2-oxo-1-pyrrolidineacetamide;
- [1(R)]-3-(aminomethyl)-3-[4-[(2,6-dichloro-4pyridinyl)methoxy]phenyl]-N-hydroxy-alpha-methyl-2-oxo-1pyrrolidineacetamide;

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[1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N-
hydroxy-alpha-methyl-2-oxo-3-[[((2-
thiazolylamino)carbonyl]amino]methyl]-1-
pyrrolidineacetamide;
```

5

- [1(R)]-4-[4-[(3,5-dimethylphenyl)methoxy]phenyl]-N-hydroxyalpha,4-dimethyl-5-oxo-1-imidazolidineacetamide;
- - [1(R)]-[3-[4-[(3,5-dimethylphenyl)methoxy]phenyl]-1-[2-(hydroxyamino)-1-methyl-2-oxoethyl]-2-oxo-3pyrrolidinyl]methyl ethylcarbamate;
    - [1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-Nhydroxy-3-(hydroxymethyl)-alpha-methyl-2-oxo-1pyrrolidineacetamide;

20

15

- [1(R)]-3-[4-[(3,5-dimethylphenyl)methoxy]phenyl]-N-hydroxyalpha,3-dimethyl-2-oxo-1-azetidineacetamide;
- [1(R)]-3-[5-[(3,5-dimethylphenoxy)methyl]-2-thiazolyl]-N-25 hydroxy-alpha,3-dimethyl-2-oxo-1-pyrrolidineacetamide;
  - [1(R)]-4-[4-[(3,5-dimethylphenyl)methoxy]phenyl]-N-hydroxy-alpha-methyl-2,5-dioxo-4-(2-propenyl)-1-imidazolidineacetamide;

- [1(R)]-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-Nhydroxy-3-(methylamino)-alpha-(2-methylpropyl)-2-oxo-1pyrrolidineacetamide;

```
[1(R)]-N-hydroxy-3-(methylamino)-alpha-(2-methylpropyl)-3-[4-
[(2-methyl-4-quinolinyl)methoxy]phenyl]-2-oxo-1-
pyrrolidineacetamide;
```

- 5 [1(R)]-alpha,3-dimethyl-N-hydroxy-2-oxo-3-[4-(phenylmethoxy)phenyl]-1-piperidineacetamide;
  - [1(R)]- $\alpha$ -[3-amino-2-oxo-3-[4-(4-quinolinylmethoxy)phenyl]-1-pyrrolidinyl]-N-hydroxy-4-piperidineacetamide;

- 20  $[1(R)]-\alpha-[3-amino-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-2-oxo-1-pyrrolidinyl]-N-hydroxy-4-piperidineacetamide;$
- [1(R)]-α-[3-amino-3-[4-[(2,6-dimethyl-4-25 pyridinyl)methoxy]phenyl]-2-oxo-1-pyrrolidinyl]-Nhydroxy-1-(methylsulfonyl)-4-piperidineacetamide;
- - [1(R)]- $\alpha$ -[3-amino-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-2-oxo-1-pyrrolidinyl]-1-(2,2-dimethyl-1-oxopropyl)-N-hydroxy-4-piperidineacetamide;
  - [1(R)]-1,1-dimethylethyl 4-[1-[3-amino-3-[4-[(2,6-dimethyl-4pyridinyl)methoxy]phenyl]-2-oxo-1-pyrrolidinyl]-2(hydroxyamino)-2-oxoethyl]-1-piperidinecarboxylate;

35

```
[1(R)] -methyl 4-[1-[3-amino-3-[4-[(2,6-dimethyl-4-
                         pyridinyl)methoxy]phenyl]-2-oxo-1-pyrrolidinyl]-2-
                          (hydroxyamino) -2-oxoethyl]-1-piperidinecarboxylate;
   5
            [1(R)] - \alpha - [3-amino-3-[4-[(2,6-dimethyl-4-
                         pyridinyl)methoxy]phenyl]-2-oxo-1-pyrrolidinyl]-N-
                         hydroxy-1-methyl-4-piperidineacetamide;
10
             [1(R)] - \alpha - [3-amino-3-[4-[(2,6-dimethyl-4-
                         pyridinyl)methoxy]phenyl]-2-oxo-1-pyrrolidinyl]-1-
                         dimethylcarbamyl-N-hydroxy-4-piperidineacetamide ;
             [1(R)] - \alpha - [3-amino-3-[4-[(2,6-dimethyl-4-
15
                         pyridinyl)methoxy]phenyl]-2-oxo-1-pyrrolidinyl]-1-
                         cyclopropanecarbonyl-N-hydroxy-4-piperidineacetamide ;
             [1(R)]-3-amino-N-hydroxy-\alpha-(1-methylethyl)-2-oxo-3-[4-(4-
                         quinolinylmethoxy)phenyl]-1-pyrrolidineacetamide;
20
            [1(R)] - 3 - amino - 3 - [4 - [(2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dimethyl - 4 - (2, 6 - dime
                         pyridinyl)methoxy]phenyl]-N-hydroxy-\alpha-(1-methylethyl)-2-
                         oxo-1-pyrrolidineacetamide;
25
            [1(R)]-3-amino-\alpha-cyclohexyl-N-hydroxy-2-oxo-3-[4-(4-
                         quinolinylmethoxy)phenyl]-1-pyrrolidineacetamide;
            [1(R)]-3-amino-\alpha-cyclohexyl-3-[4-[(2,6-dimethyl-4-
                         pyridinyl)methoxy]phenyl]-N-hydroxy-2-oxo-1-
30
                         pyrrolidineacetamide;
           3-\text{amino}-\alpha-(1,1-\text{dimethylethyl})-3-[4-[(2,6-\text{dimethyl}-4-
                        pyridinyl)methoxy]phenyl]-N-hydroxy-2-oxo-1-
                        pyrrolidineacetamide;
35
            [1(R)]-3-amino-\alpha-(1,1-dimethylethyl)-N-hydroxy-2-oxo-3-[4-(4-
                        quinolinylmethoxy)phenyl]-1-pyrrolidineacetamide;
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[1(R)]-3-amino-\alpha-(1,1-dimethylethyl)-N-hydroxy-2-oxo-3-[4-[(2-methyl-4-quinolinyl)methoxy]phenyl]-1-pyrrolidineacetamide;
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- - [1(R)]-α-[3-amino-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-2-oxo-1-pyrrolidinyl]-1-(2-methyl-1-oxopropyl)-N-hydroxy-4-piperidineacetamide;
  - [1(R)]-3-amino-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N-hydroxy-α-(4-methoxycyclohexyl)-2-oxo-1-pyrrolidineacetamide;
  - [1'(R)]-N-hydroxy-1,2-dihydro-α-(1-methylethyl)-2,2'-dioxo-6(phenylmethoxy)spiro[3H-indole-3,3'-pyrrolidine]-1'acetamide;
- 30 [1(R)]-N-hydroxy-α,3-dimethyl-2-oxo-3-[3-(phenylmethoxy)phenyl]-1-pyrrolidineacetamide;
  - [1(R)]-3-[3-[(3,5-dimethylphenyl)methoxy]phenyl]-N-hydroxy- $\alpha$ , 3-dimethyl-2-oxo-1-pyrrolidineacetamide;
    - [1(R)]-N-hydroxy-α,3-dimethy1-3-[3-[(3methylphenyl)methoxy]phenyl]-2-oxo-1pyrrolidineacetamide;

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[1(R)]-N-hydroxy- $\alpha$ , 3-dimethyl-3-[3-(1-methylethoxy)phenyl]-2-oxo-1-pyrrolidineacetamide;

- 5  $[1(R)]-3-[3-(heptyloxy)phenyl]-N-hydroxy-\alpha,3-dimethyl-2-oxo-1-pyrrolidineacetamide;$ 
  - [1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N1-hydroxy- $\alpha$ 1-methyl-2-oxo-N3-1,3,4-thiadiazol-2-yl-1,3-pyrrolidinediacetamide;
  - [1(R)]-1,1-dimethylethyl 1-[2-(hydroxyamino)-1-methyl-2oxoethyl]-2-oxo-3-[4-(phenylmethoxy)phenyl]-3pyrrolidineacetate;
  - [1(R)]-1-[2-(hydroxyamino)-1-methyl-2-oxoethyl]-2-oxo-3-[4-(phenylmethoxy)phenyl]-3-pyrrolidineacetic acid;
- [1(R)]-3-[4-[(3,5-dimethylphenyl)methoxy]phenyl]-N1-hydroxy-20 α1-methyl-N3-[2-(methylamino)-2-oxoethyl]-2-oxo-1,3pyrrolidinediacetamide;
  - [1(R)]-3-[4-[(3,5-dimethylphenyl)methoxy]phenyl]-N1-hydroxyα1-methyl-2-oxo-N3-2-thiazolyl-1,3pyrrolidinediacetamide;
    - [1(R)]-3-[4-[(3,5-dimethylphenyl)methoxy]phenyl]-N-hydroxy- $\alpha$ -methyl-3-[2-(4-morpholinyl)-2-oxoethyl]-2-oxo-1-pyrrolidineacetamide;
  - [1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N1hydroxy- α1-methyl-2-oxo-N3-2-thiazolyl-1,3pyrrolidinediacetamide;
- 35 [1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N1hydroxy-α1-methyl-2-oxo-N3-[2-(4-morpholinyl)ethyl]-1,3pyrrolidinediacetamide;

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[1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N1-hydroxy- $\alpha$ 1-methyl-2-oxo-N3-(4-pyridinylmethyl)-1,3-pyrrolidinediacetamide;

5

- [1(R)]-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-M1hydroxy-α1-methyl-2-oxo-N3-2-thiazolyl-1,3pyrrolidinediacetamide;
- 10 [1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N1hydroxy- α1-methyl-2-oxo-N3-(3-pyridinylmethyl)-1,3pyrrolidinediacetamide;
- [1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N1hydroxy- α1-methyl-2-oxo-N3-(2-pyridinylmethyl)-1,3pyrrolidinediacetamide;
- [1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-M1hydroxy- α1-methyl-2-oxo-N3-4-pyridinyl-1,320 pyrrolidinediacetamide;
  - [1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-M1-hydroxy- $\alpha$ 1-methyl-M3-(3-methyl-5-isothiazolyl)-2-oxo-1,3-pyrrolidinediacetamide;

- [1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N3-[5-(1,1-dimethylethyl)-1,3,4-thiadizol-2-yl]-N1-hydroxy- $\alpha$ 1-methyl-2-oxo-1,3-pyrrolidinediacetamide;
- 35 [1(R)]-2-[[[3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-1[2-(hydroxyamino)-1-methyl-2-oxoethyl]-2-oxo-3pyrrolidinyl]acetyl]amino]-4-thiazoleacetic acid;

[1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N1-hydroxy- $\alpha$ 1-methyl-N3-[4-[2-(methylamino)-2-oxoethyl]-2-thiazolyl]-2-oxo-1,3-pyrrolidinediacetamide;

5

[1(R)]-3-(1H-benzimidazol-2-ylmethyl)-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N-hydroxy- $\alpha$ -methyl-2-oxo-1-pyrrolidineacetamide;

10 [1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N-hydroxy-3-(3H-imidazo(4,5-c)pyridin-2-ylmethyl)- $\alpha$ -methyl-2-oxo-1-pyrrolidineacetamide;

- [1(R)]-3-[4-[3,5-bis(trifluoromethyl)phenoxy]phenyl]-N1hydroxy-α1-methyl-2-oxo-N3-(4-pyridinylmethyl)-1,320 pyrrolidinediacetamide;
  - [1(R)]-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N1 hydroxy-α1-(1-methylethyl)-2-oxo-N3-(4-pyridinylmethyl) 1,3-pyrrolidinediacetamide;

- [1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N1hydroxy-α1-(1-methylethyl)-2-oxo-N3-(4-pyridinylmethyl)1,3-pyrrolidinediacetamide;
- 30 [1(R)]-α1-(cyclohexylmethyl)-3-[4-[(2,6-dimethyl-4pyridinyl)methoxy]phenyl]-N1-hydroxy-2-oxo-N3-(4pyridinylmethyl)-1,3-pyrrolidinediacetamide;
- [1(R)]-α1-(cyclohexylmethyl)-3-[4-[(2,6-dichloro-4pyridinyl)methoxy]phenyl]-N1-hydroxy-2-oxo-N3-(4pyridinylmethyl)-1,3-pyrrolidinediacetamide;

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[1(R)]-1,1-dimethylethyl [5-[3-[4-[(2,6-dimethyl-4-
                               pyridinyl) methoxy] phenyl] -2-oxo-3-[2-oxo-2-[(4-
                               pyridinylmethyl)amino]ethyl]-1-pyrrolidinyl]-6-
                                (hydroxyamino)-6-oxohexyl]carbamate;
   5
                [1(R)] - \alpha 1 - (4-\text{aminobuty1}) - 3 - [4 - [(2, 6-\text{dimethy})] - 4 - [(3, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 - [(4, 6-\text{dimethy})] - 4 
                               pyridinyl)methoxy]phenyl]-M1-hydroxy-2-oxo-M3-(4-
                               pyridinylmethyl)-1,3-pyrrolidinediacetamide;
 10
                [1(R)] - 3 - [3 - (1H-benzotriazol - 1 - ylmethoxy) phenyl] - N-hydroxy-
                               \alpha, 3-dimethyl-2-oxo-1-pyrrolidineacetamide;
                [1(R)]-N-hydroxy-3,4,4-trimethyl-\alpha-[3-methyl-2-oxo-3]4-
                                (phenylmethoxy)phenyl]-1-pyrrolidinyl]-2,5-dioxo-1-
15
                               imidazolidinepropanamide;
               [1(R)]-1,1-dimethylethyl 1-[(hydroxyamino)carbonyl]-3-
                               methylbutyl]-2-oxo-3-[4-(phenyl]-3-pyrrolidineacetate;
20
               [1(R)-N1-hydroxy-3-[4-[(3,5-dimethylphenyl)methoxy]phenyl]-N3-
                               [2-(methylamino)-2-oxoethyl]-\alpha-(2-methylpropyl)-2-oxo-
                               1,3-pyrrolidinediacetamide;
               [1(R)]-3-[4-[(2,6-dichloro-4-pyridiny])methoxy]phenyl]-<math>N1-
25
                              hydroxy-N3- [2-(methylamino)-2-oxoethyl]-alphal-(2-
                              methylpropyl)-2-oxo- 1,3-pyrrolidinediacetamide;
               [1(R)]-3-[4-[(2,6-dichloro-4-pyridiny])methoxy]phenyl]-<math>N1-
                              hydroxy-\alpha1-(2-methylpropyl)-2-oxo-N3-2-thiazolyl-1,3-
30
                              pyrrolidinediacetamide;
```

- [1(R)]-3-[4-[3,5-bis(trifluoromethyl)phenoxy]phenyl]-N1-hydroxy-N3-[2-(methylamino)-2-oxoethyl]- $\alpha$ 1-(2-methylpropyl)-2-oxo-1,3-pyrrolidinediacetamide;
- [1(R)]-3-[4-[3,5-bis(trifluoromethyl)phenoxy]phenyl]-N1hydroxy-α1-(2-methylpropyl)-2-oxo-N3-(4-pyridinylmethyl)1,3-pyrrolidinediacetamide;

[1(R)]-3-[4-[(2,6-dichloro-4-pyridinyl)methoxy]phenyl]-N1hydroxy-α1-(2-methylpropyl)-2-oxo-N3-phenyl-1,3pyrrolidinediacetamide;

5

[1(R)]-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N1-hydroxy-N3-methyl- $\alpha$ 1-(2-methylpropyl)-2-oxo-1,3-pyrrolidinediacetamide;

10 [1(R)]-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N1hydroxy-N3-[2-(1H-imidazol-4-yl)ethyl]-α1-(2methylpropyl)-2-oxo-1,3-pyrrolidinediacetamide;

- [1(R)]-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N1hydroxy-α1-(2-methylpropyl)-2-oxo-N3-[1-(phenylmethyl)-4piperidinyl]-1,3-pyrrolidinediacetamide;
  - [1(R)]-N3-[2-(dimethylamino)ethyl]-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N1-hydroxy-α1-(2-methylpropyl)-2-oxo-1,3-pyrrolidinediacetamide;
    - [1(R)]-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N1hydroxy-N3-(4-hydroxyphenyl)-α1-(2-methylpropyl)-2-oxo-1,3-pyrrolidinediacetamide;

25

- [1(R)]-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N3-hydroxy- $\alpha$ 1-(2-methylpropyl)-2-oxo-N3-2-thiazolyl-1,3-pyrrolidinediacetamide;
- 30 [1(R)]-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N3hydroxy-3-(2-hydroxyethyl)-α1-(2-methylpropyl)-2-oxo-1pyrrolidineacetamide;
- [1(R)]-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N3-35 (4,5-dimethyl-2-thiazolyl)-N1-hydroxy-α1-(2methylpropyl)-2-oxo-1,3-pyrrolidinediacetamide;

[1(R)]-3-[4-[(2,6-dimethyl-4-pyridinyl)methoxy]phenyl]-N1-hydroxy-N3-1H-indazol-5-yl- $\alpha$ 1-(2-methylpropyl)-2-oxo-1,3-pyrrolidinediacetamide; and,

- 5 [1(R)]-3-[4-[3,5-bis(trifluoromethyl)phenoxy]phenyl]-N1hydroxy-α1-(2-methylpropyl)-2-oxo-N3-2-thiazolyl-1,3pyrrolidinediacetamide;
  - or a pharmaceutically acceptable salt form thereof.

10

- 6. A compound according to Claim 1, wherein:
- A is selected from  $COR^5$ ,  $-CO_2H$ ,  $CH_2CO_2H$ , -CONHOH,  $-CONHOR^5$ ,  $-CONHOR^6$ ,  $-N(OH)COR^5$ , -SH, and  $-CH_2SH$ ;
  - ring B is a 4-7 membered cyclic amide containing from 0-3 additional heteroatoms selected from O, NRa, and S(O)p, and 0-1 additional carbonyl groups and 0-1 double bonds;

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- $R^1$  and  $R^2$  combine to form a  $C_{5-14}$  carbocyclic residue substituted with  $R^1$ ' and 0-3  $R^b$  or a 5-10 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S and substituted with  $R^1$ ' and 0-3  $R^b$ ;
- $Z^a$  is selected from H, a  $C_{5-10}$  carbocyclic residue substituted with 0-5  $R^c$  and a 5-10 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S and substituted with 0-5  $R^c$ ;

 $(CRR')_r, SO_2NR^a(CRR')_r-Q, \quad (CRR')_r, NR^aSO_2(CRR')_r-Q, \quad and \\ (CRR')_r, NR^aSO_2NR^a(CRR')_r-Q;$ 

- R, at each occurrence, is independently selected from H, CH₃, CH₂CH₃, CH=CH₂, CH=CHCH₃, and CH₂CH=CH₂;
  - R', at each occurrence, is independently selected from H,  $CH_3$ ,  $CH_2CH_3$ , and  $CH(CH_3)_2$ ;
- 10 Q is selected from H, a  $C_{3-10}$  carbocyclic residue substituted with 0-5  $R^{\rm b}$  and a 5-10 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S and substituted with 0-5  $R^{\rm b}$ ;
- 15 R⁴ is selected from H;
  - R^c, at each occurrence, is independently selected from  $C_{1-6}$  alkyl,  $OR^a$ , Cl, F, Br, I, =0, CN,  $NO_2$ ,  $NR^aR^a$ ,  $C(O)R^a$ ,  $C(O)R^a$ ,  $C(O)NR^aR^a$ ,  $S(O)_2NR^aR^a$ ,  $S(O)_pR^a$ ,  $CF_3$ ,  $CF_2CF_3$ , and a 5-10 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S.
- 7. A compound according to Claim 6, wherein the compound is of formula II:

- 30 wherein, A is selected from -CO₂H, CH₂CO₂H, -CONHOH, and -CONHOR⁵;
- ring C is fused to ring G and is a phenyl ring or 5-6 membered aromatic heterocycle containing from 1-4 heteroatoms selected from 0, N, and S(O)_p, and ring C is substituted with 1 R¹;

ring G is a 4-8 membered carbocylic ring substituted with 0-1 carbonyl groups

- 5 alternatively, ring G is a 4-8 membered heterocyclic ring containing from 1-2 heteroatoms selected from O and NR^a and subsituted with 0-2 carbonyl groups and 0-1 double bonds;
- 10  $U^a$  is absent or is selected from: O,  $NR^a$ , C(O), C(O) $NR^a$ ,  $NR^a$ C(O), and S(O) $_DNR^a$ ;
  - $X^a$  is absent or  $C_{1-4}$  alkylene;
- 15 Ya is absent or selected from O and NRa;
  - Z^a is selected from H, phenyl substituted with 0-5 R^c and a 5-9 membered aromatic heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, 0, and S and substituted with 0-5 R^c;
  - Q is selected from H, a  $C_{5-6}$  carbocyclic residue substituted with 0-5  $R^b$  and a 5-6 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S and substituted with 0-5  $R^b$ ; and,
  - R^c, at each occurrence, is independently selected from  $C_{1-6}$  alkyl,  $OR^a$ , Cl, F, Br, I, =0, CN,  $NO_2$ ,  $NR^aR^a$ ,  $C(0)R^a$ ,  $C(0)OR^a$ ,  $C(0)NR^aR^a$ ,  $S(0)_2NR^aR^a$ ,  $S(0)_pR^a$ ,  $CF_3$ ,  $CF_2CF_3$ , and a 5-6 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S.
  - 8. A pharmaceutical composition, comprising: a pharmaceutically acceptable carrier and a therapeutically

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effective amount of a compound of one of Claims 1-7 or a pharmaceutically acceptable salt form thereof.

9. A method for treating or preventing an inflammatory disorder, comprising: administering to a patient in need thereof a therapeutically effective amount of a compound of one of Claims 1-7 or a pharmaceutically acceptable salt form thereof.

10

- 10. A method of treating a condition or disease mediated by MMPs, TNF, aggrecanase, or a combination thereof in a mammal, comprising: administering to the mammal in need of such treatment a therapeutically effective amount of a compound of one of Claims 1-7 or a pharmaceutically acceptable salt form thereof.
- 11. A method of treating a condition or disease wherein
  20 the disease or condition is referred to as rheumatoid
  arthritis, osteoarthritis, periodontitis, gingivitis, corneal
  ulceration, solid tumor growth and tumor invasion by secondary
  metastases, neovascular glaucoma, multiple sclerosis, or
  psoriasis in a mammal, comprising: administering to the
  25 mammal in need of such treatment a therapeutically effective
  amount of a compound of one of Claims 1-7 or a
  pharmaceutically acceptable salt form thereof.
- 12. A method of treating a condition or disease wherein the disease or condition is referred to as fever, cardiovascular effects, hemorrhage, coagulation, cachexia, anorexia, alcoholism, acute phase response, acute infection, shock, graft versus host reaction, autoimmune disease or HIV infection in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of one of Claims 1-7 or a pharmaceutically acceptable salt form thereof.

A. CLASSIF IPC 6	FICATION OF SUBJECT MATTER C07D207/27 A61K31/40 C07D401/	12 C07D417/12							
According to International Patent Classification (IPC) or to both national classification and IPC									
B. FIELDS SEARCHED									
Minimum documentation searched (classification system followed by classification symbols)  IPC 6 C07D A61K									
-Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched									
Electronic da	ata base consulted during the international search (name of data bas	e and, where practical, search terms used)							
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT								
Category °	Citation of document, with indication, where appropriate, of the rele	Relevant to claim No.							
Υ .	WO 97 32846 A (UPJOHN CO ;JACOBSE (US)) 12 September 1997 see the whole document	1-8							
Y	WO 97 16425 A (JONES A BRIAN ;ADA (US); MERCK & CO INC (US); ACTON 9 May 1997 see the whole document	1-8							
Y	WO 96 29313 A (PROCTER & GAMBLE) 26 September 1996 see claim 1; examples		1-8						
Furt	ther documents are listed in the continuation of box C.	X Patent family members are listed	in annex.						
"Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier document but published on or after the international filling date invention  "E" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means  "P" document published prior to the international filling date but later than the priority date claimed  "A" document published after the international filling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document, such combination being obvious to a person skiller in the art.  "B" document published after the international filling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document, such combination being obvious to a person skiller in the art.  "8" document member of the same patent family  Date of the actual completion of the international search									
	26 January 1999	02/02/1999							
Name and	mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Authorized officer  Lauro, P							

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## INTERNATIONAL SE

Information

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WO 9629313	A	26-09-1996	US AU BR CA CZ EP HU NO	5672598 A 5255896 A 9607772 A 2216129 A 9702951 A 0815084 A 9800813 A 974335 A	30-09-1997 08-10-1996 07-07-1998 26-09-1996 13-05-1998 07-01-1998 28-07-1998 21-11-1997

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